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### SUMMARY TECHNICAL REPORT OF THE NATIONAL DEFENSE RESEARCH COMMITTEE

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SUMMARY TECHNICAL REPORT OF DIVISION 14, NDBC

VOLUME 3

## BIBLIOGRAPHY OF DIVISION 14 AND RADIATION LABORATORY REPORTS

OFFICE OF SCIENTIFIC RESEARCH AND DEVELOPMENT VANNEVAR BUSH, DIRECTOR

NATIONAL DEFENSE RESEARCH COMMITTEE
JAMES B. CONANT, CHAIRMAN

DIVISION 14 A. L. LOOMIS, CRIEF

WASHINGTON, D. C., 1946

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### NOTES ON THE ORGANIZATION OF NDRC

The duties of the National Defense Research Committee were (I) to recommend to the Director of OSRD suitable projects and research programs on the instrumentalities of warfare, together with contract facilities for carrying out these projects and programs, and (2) to administer the technical and scientific work of the contracts. More specifically, NDRC functioned by initiating research projects on requests from the Army or the Navy, or on requests from an allied government transmitted through the Liaison Office of OSRD, or on its own considered initiative as a result of the experience of its members. Proposals prepared by the Division, Panel, or Committee for research contracts for performance of the work involved in such projects were first reviewed by NDRC, and if approved, recommended to the Director of OSRD. Upon approval of a proposal by the Director, a contract permitting maximum flexibility of scientific effort was urranged. The business aspects of the contract, including such matters as materials, clearances, vouchers, putents, priorities, legal matters, and administration of putent matters were handled by the Executive Secretary of OSRD.

Originally NDRC administered its work through five divisions, each headed by one of the NDRC members.

Division A-Armor and Ordnunce

Division B—Bombs, Fuels, Gases, & Chemical Prob-

Division C—Communication and Transportation Division D—Detertion, Controls, and Instruments

Division E-Patents and Inventions

In a reorganization in the full of 1942, twenty-three administrative divisions, panels, or committees were created, each with a chief selected on the basis of his autstanding work in the particular field. The NDRC members then became a reviewing and advisory group to the Director of OSRD. The final organization was as follows:

Division 1-Ballistic Research

Division 2-Effects of Impact and Explosion

Division 3-Rocket Ordnance

Division 4-Ordnance Accessories

Division 5—New Missles Division 6—Sub-Surface Warfare

Division 7—Fire Control

Division 8-Explosives

Division 9-Chemistry

Division 10-Absorbents and Aerosols

Division 11-Chemical Engineering

Division 12-Transportation

Division I3-Electrical Communication

Division 14-Radar

Division 15-Radio Coordination

Division 16-Optics and Cumouflage

Division 17-Physics

Division 18-War Metallurgy

Division 19-Miscellaneous

Applied Mathematics Panel

Applied Psychology Panel Committee on Propagation

Tropical Deterioration Administrative Committee

### NDRC FOREWORD

S EVENTS of the years preceding 1940 re-A vealed more und more clearly the seriousness of the world situation, many scientists in this country came to realize the need of organizing scientific research for service in a national emergency. Recommendations which they made to the White House were given careful and sympathetic attention, and as a result the Nutional Defense Research Committee [NDRC] was formed by Executive Order of the President in the summer of 1940. The members of NDRC, appointed by the President, were instructed to supplement the work of the Army and the Navy in the development of the Instrumentalities of war, A year later, upon the establishment of the Office of Scientific Research and Development [OSRD], NDRC becume one of its units

The Summary Technical Report of NDRC is a conscientious effort on the part of NDRC to summarize and evaduate its work and to present it in a useful and permanent form. It comprises some seventy volumes broken into groups corresponding to the NDRC Divisions, Panels, and

Committees.

The Summary Technical Report of each Division, Panel, or Committee is an integral survey of the work of that group. The first volume of each group's report contains a summary of the report, stating the problems presented and the philosophy of attacking them, and summarizing the results of the research, development, and training activities undertaken. Some volumes may be "state of the art" treatises covering subjects to which various research groups have contributed information. Others may contain descriptions of devices developed in the laboratories. A master index of all these divisional, punel, and committee reports which together constitute the Summary Technical Report of NDRC is contained in this volume, which also includes a record of microfilm numbers, pertinent technical laboratory reports and reference material.

Some of the NDRC-sponsored researches which have been declassified by the end of 1945 were of sufficient popular interest that it was found desirable to report them in the form of monographs, such as the series on radar by Division 14 and the monograph on sampling inspection by the Applied Muthematics Panel. Sioce the material treated in them is not daplicated in the Summary Technical Report of NDRC, the

monographs are an important part of the story of these aspects of NDRC research,

In contrast to the information on radar, which is of widespread interest and much of which is released to the public, the research on subsurface warfare is largely classified and is of general interest to a more restricted group. As a consequence, the report of Division 6 is found almost entirely in its Summary Technical Report, which runs to over twenty volumes. The extent of the work of a Division cannot therefore be judged solely by the number of volumes devoted to it in the Summary Technical Report of NDRC: account must be taken of the monographs and available reports published elsewhere.

To A. L. Loomis, Chief of Division 14, the men who worked under his direction, and the personnel of the Division's contractors belongs major credit for the perfection of a device which forcefully altered the course of the war. The application of radar by all Services in all theaters of operation is an eloquent testimonial not only to the skill of these men but also to their will, their loyal cooperation, and their scientific integrity. The Summary Technical Report of the Division, prepared under the direction of the Division, therefore not only describes a major portion of their technical activities but is also a record of able American scientists and engineers cooperating fully in the defense of their country.

It is assuring to know that their contributions in the new field of microwaves will not be placed in intellectual cold storage to await purely military applications, but instead will soon find use in the industry, the transportation, the communications, and the scientific researches of a peacetime world.

For their work in opening a broad entrance to a new field of knowledge as well as for their invaluable contributions in a time of desperate strife, we join the Nation in expressing our sincere appreciation,

VANNEVAR BUSH, Director
Office of Scientific Research and Development

J. B. CONANT, Chairman National Defense Research Committee

### FOREWORD

IVISION 14 of the National Defense Research Committee [NDRC] was responsible for the microwave radar and Loran developments within the Office of Scientific Research and Development [OSRD]. Its original purpose, as defined at one of the early division meetings, was, "to organize and coordinate research, invention, design and manufacture in order to obtain the maximum number of effective applications of microwaves in the minimum time." Under this directive, Division 14 established and administered a total of 137 OSRD contracts with 18 academic and private research Institutions, and 39 industrial concerns entering into almost every phase of the country's war-time radur progrum. The principal contractor, accounting for approximately 80 per cent of the division's contract appropriations, was The Mussachusetts Institute of Technology Radiation Laboratory [MIT-RL]. This laboratory, through continuous growth and expansion of the scope of its activities, became the center of microwave radar research and development effort.

Without question the success of the program was due to the close collaboration of the many participating agencies and institutions. Many of the country's acudemic and industrial institutions worked with MIT-RL in research and development programs under U.S. Army and U.S. Navy as well as OSRD contracts, Radio and electrical equipment manufacturers were responsible for final engineering and large scale production of components and systems. The U. S. Army and U. S. Navy carried out procurement planning, proof testing, training, and the elaborate functions of supply and maintenance. Close technical liaison, furthermore, was malntained throughout the war with radar research organizations of the Brltish Commonwealth of Nations. The contributions of the many participating organizations must be acknowledged by any single agency attempting to present its final report.

The NDRC Summary Technical Report is intended to include the pertinent results of each division's program. The selection of material for such a report invariably presents a difficult

problem. A choice must be made from the work of many organizations and individuals during a complex live-year program.

The Division 14 Summary Technical Report consists of three volumes. The first, RADAR, contains a summary of the Division 14 and MIT-RL activities, a report on HARP, and appendices listing the division's projects and contracts, Volume 2 of the Division 14 STR is entitled MARS, Militory Airborne Radar Systems. This volume is a detailed treatment of the design, development, installation, maintenance and performance of aircraft radar for such applications as search, bombing, navigation, interception and lire control. The volume is intended as a general text for use by officers and civilian engineers concerned with almost any aspect of aircraft radar development, engineering, procurement, training, or operational use. Volume 3 is a complete Bibliography of the contractors' and divisional reports prepared during the course of the program. It is intended to serve as a general guide to the division's activitles.

The largest publication effort of Division 14 is the Radiation Laboratory Series prepared by the MIT-RL for publication by the McGraw-Hill Book Company, Inc. This set of monographs is considered as a supplement to the Division 14 Summary Technical Report. It consists of some 27 volumes and an index and is a complete report on the state of the radar art at the end of the war, beluding texts on fundamental electronics, components and systems design and engineering, peace-time applications, and Loran navigation. A list of the titles and un abstract of each book is contained in the Bibliography of this volume.

The progress and interim technical reports submitted by MIT-RL and other Division 14 contractors constitute valuable reference material on the division's program. They cover specific aspects of the work and are not duplicated by the Summary Technical Report or the Radiation Laboratory Series. All these (approximately 2,000) reports have been indexed by report number, subject, organization, and, in the case of the MIT-RL reports, by uuthor in the Bibliography of this volume. Microfilm

prints of these reports are available to those who have access to the Summary Technical Reports.

Another category of reports which are Included in the Bibliography and microfilms are the Division 14 Project Reports. These were Division 14's bimonthly reports of activities to the U. S. Army and U. S. Navy. Included are pertinent technical details of the systems, projects, and summaries of the basic research und component development uctivities. The final project report, NDRC 14-565, dated December 1945, reviews the entire program of the division. It contains an index of all Division 14 projects, including Service projects, with cross references to contracts and U. S. Army and U. S. Navy equipment designations.

The history of Division 14 has been prepared and edited by H. E. Guerlac for publication with the other volumes of the OSRD long history by the Little Brown Company, Inc., Boston. It traces the early work on radar before the wur by the U. S. Army, U. S. Navy, British and various private institutions, describes the origin of NDRC's microwave development activities,

outlines the foundation of the Radiation Laboratory, and gives an historical summury of the principal division systems and components research program. A final section, which should be of general interest, reports on the field service activities of the division and the operational results obtained with several types of microwave-rudar equipment.

Two important publications were originally intended for inclusion in the Division 14 Summary Technical Report but were deleted and published elsewhere. They are: Development of Codillae Airborne Early Warning Systems, C. J. Kelly, Field Station, Naval Research Laboratory [NRL], Boston; and The Gun Fire-Control System, Mark 56, Navy Publication OP-1600 E.

I should like to express my appreciation to the authors, L. A. DuBridge, H. E. Guerlac, M. H. Johnson, O. Halpern, and to the other members of MIT-RL and Division 14 staff who assisted in the preparation of this volume,

A. L. LOOMIS Chief, Division 14

THE BIBLIOGRAPHY which follows indexes all of the approximately 2,000 technical reports on the microwave radur and Loran navigation research and development program of Division 14 of the National Defense Research Committee. The reports were prepared by The Massaehusetts Institute of Technology Rudiation Luboratory [MIT-RL] and the 58 other industrial and academic iastitutions under OSRD contract and in several instances by the Divlsion 14 staff. All of these reports have been inciuded in the Bibliography even though they have not been specifically referred to in the text of the two volumes of the Division 14 Summary Technical Report since they comprise, with the MIT Radiation Laboratory Series," a complete technical record of Division 14 activities.

Section 1 of the Bibliography is a aumerical list of reports which have been asigned Divisioa 14 report numbers. These reports are identified by the aumber 14 which precedes the serial number (e.g., 14-501). These include priacipully the interim and final technical reports submitted by the industrial and academic organizations, other than MIT-RL, in connection with their performance of radar research and development under OSRD contract assigned to Division 14. Also included are the administrative and summary reports prepared by the Division 14 organization such as the bimonthly Project Report and the several volumes of the U. S. Radar Survey, In the numerical index complete data are given on each report title, author, organization and OSRD contract number, and date.

Section 2 is a numerical index of regular reports, manuals, special reports und texts issued by MIT-RL uader OSRD Contract OEMsr-262. They are ideatified throughout the Bibliography by the letters RL which precede the report number (e.g., RL-501, RL M-9, RL S-9, RL T-9). MIT-RL reports 1 to 399 were renumbered for uniformity from an early system of identification by groups within the luboratory. The original combination of group and seriai

numbers is given in parenthesis after the revised serial number [e.g., R1-300 (61-18)].

Section 3 is a combined index by subject matter of both Division 14 and MIT-RL reports. Complete data are not repeated for each report so that reference to Sections 1 and 2 may be necessary.

Section 4 lists Division 14 reports by the organization responsible for their preparation. Reports issued by different divisions of a commercial concern or academic institutioa, or on different OSRD contracts, are combined under the titles of the central organizations.

Section 5 is an iadex of MIT-RL reports by author; it does not include the authors of NDRC reports of Division 14. Where two or more authors collaborated in the writing of a report, the report number is repeated uader each same.

The security classifications of the reports are not given in the Bibliography. Advice as to the current classification of any OSRD report may be obtained from the Office of the Executive Secretary, OSRD, from the War Department Liuison Officer with NDRC, or from the Office of Research and Inventions, Navy Department.

The set of Division 14 and MIT-RL reports in the Bibliography have, with but a few exceptions, been microfilmed to facilitate future reference. The microfilm number assigned to the reports appears in references throughout this Bibliography and the Summary Technicai Reports as 14-000.00-M1. Attention is directed to the classified index of Division 14 reports in the NDRC Summary Technical Report Microfilm Index Volume. Requests for microfilm priats of the set of reports should be addressed to the Research and Development Division. Office of Research and Inventions, Navy Department, Washington, D.C., or to the War Department Liaison Officer with the National Defease Research Committee, Army Service Forces, War Department, Washington, D.C.

Original copies of the Division 14 and MIT-RL reports will be found In the records of the Office of the Executive Secretary, OSRD; the OSRD Linison Office; NDRC Division 14; MIT-RL Document Library. The reports were distributed also to several organizations in the

<sup>&</sup>quot;MIT Radiation Laboratory Series, in publication by the McGraw-Hill Book Company, New York, N. Y.

Navy Department including the Research and Development Division, Office of Research and Inventions; Naval Research Laboratory; Bureau of Ships; Bureau of Aeronautics; Bureau of Ordnance; and the U. S. Naval Academy; and to organizations in the War Department including the Office of the War Department Llaison Officer with NDRC; Office of the Chief Signal Officer: Signal Corps Engineering Laboratories; Evnns Signal Laboratory; Headquarters, Army Ground Forces; Army Ground Forces Board No. 1, Fort Bragg; Headquarters, Army Alr Forces, AC/AS-4; Continental Air Forces, Operations Analysis Division; Air Mntériel Command Radar Laboratory; Air Matérial Command Watson Laboratories; and the Army Air Forces Proving Ground Command.

Copies of OSRD reports which have been declassified have been filed with the Office of the Publication Board, Department of Commerce,

Washington, D.C. Selected sets of these declassified reports from Division 14 have been given a limited distribution, through arrangement with the Library of Congress, to a number of technical reference libraries throughout the country including the following: National Bureau of Standards, The Library of Congress. The University of Chicago, Stanford University. Columbia University, California Institute of Technology, University of Illinols, Duke University, Iowa State College of Agriculture and Mechanic Arts, Princeton University, The New York Public Library, University of Michigan, Yale University, The University of Texas, The Johns Hopkins University of Rochester, The Ohio State University, Georgia School of Technology, Purdue University, Engineering Societies Library, University of Pennsylvania, Washington University, Cornell University, University of Minnesota.

### CONTENTS

PART		PAGE
I	Numerical Index of Division 14, NDRC Reports	1
II	Numerical Index of Radiation Laboratory Reports	21
III	Subject Index of Division 14 and Radiation Laboratory Reports	61
IV	Organization Index of Division 14 Reports .	107
$\mathbf{V}$	Author Index of Radiation Laboratory Reports	117
	OSRD Appointees	144
	Contracts, Contractors, and Subject of Contracts	145
	Titles of Division 14 Summary Technical Re-	
	ports	153

### PART I

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14-121	Summary of Projects, NDRC, Rudar Division	14-140	Hurrier Capacity in Silicon Curtridge Recti-
14-125	<ol> <li>Mar. 1, 1943. Div. 14-30I-M8</li> <li>Electron Microscopy of Tungsten Points, A.</li> <li>W. Lawson, W. E. Stephens, University of Pennsylvania, Mar. 10, 1943, OEMsr-388,</li> </ol>		fiers, Andrew W. Lawson, P. H. Miller, L. I. Schiff, W. K. Stephens, University of Pennsylvania, May 1, 1943, OEMsr-388,
	Div. 14-233.11-Ma	I4-141	Div. 14-283.112-M7 Summary of Peojects, Rimonthly Report, Divi-
14-126	Noise in Crystal Rectifiers, L. I. Schiff, University of Pennsylvaniu, Mar. 10, 1943, OKMsr-388.  Div. 14.223 131 M1	14-142	sion 14, NDRC, May 1, 1943. Dlv. 14-501-M8 Measurement of Dielectric Constant and Loss
14-127	Spectroscopic Determination of Aluminum in Silicon, A. W. Lawson, P. 4I, Miller, Uni- versity of Pennsylvania, Mar. 10, 1943.		with Standing Waves in Countil Place Guides, A. von Hippel, D. G. Jelatis, W. B. Westphal, Massachusetts Institute of Technology, April 1, 1943, OKMsr-191, Div. 14-233.413-M-4
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14-144	Measurement of Conversion Gnin with a Modulated Oscillator, R. N. Smith, Purdue University, Apr. 20, 1943, OEMsr-362.	14-157	N-Ray Emission from Rudne Equipment, La Rovner, Division 14, NDRC, Jan. 15, 1943, Div. 14-600-M2
14-145	Div. 14-233.14-MI Crystal Clack Project, Third Progress Report, W. C. Kimore, J. F. Marshall, D. L. Gold-	14-158	Analysis of #SA7 Goted Amplifier, B. Rossi, J. Kurshan, Cornell University, July 14, 1943, OFMsr-768. Div. 14-241.3-M4
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52:500.00	Div. 14-242,232-M]	14-162	Theory of Signal to Noise Ratio of Crystal
14-148	Magnetron Cathode Studies, Progress Report, W. F. G. Swann, W. E. Danforth, M. A. Pomerantz, C. D. Pruter, W. K. Ramsey, Martin Branch Newschild, The Prophilic	14-163	Mirecs, H. Hurwitz, Jr., Cornell University, May 1, 1943, OKNar-420. Div. 14-233,12-M6 Interference of Loran Pulses with Radiotele- phone and Telegraph Reception, M. J. Kelly,
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	Div. 14-232,143-M2		lyn, May 20, 1943, OKMsr-335,
14-150	Report on Knelound Pressure Gaps, C. M. Slack, E. G. F. Arnott, Westinghouse Electric	14-165	Div. 14-233,413-M6  Kffeet of Etch on Crystal Rectifiers, A. W.
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I4-15I	Propagation of 10-Centimeter Waves on a 52- Mile Optical Path over Land, The Correlation	I4-166	Capacity in Crystal Rectifiers, A. W. Lawson,
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	S. T. Stephenson, Wushington State College, June 10, 1943, OEMsr-728, Div. 14-122.21-M1	14-167	Crystal Noise as a Function of DC Bins and
14-152	Rudiolelephone Communication on 2000 Megn-		30-Mc Impedance Measurul with a Diode Noise Source, R. N. Smith, Purdue University,
	eyelrs, P. A. Anderson, C. L. Barker, K. K. Fitzsimmons, S. T. Stephenson, Washington	44 140	June 25, 1943, OKMsr-362. Div. 14-233.15-M2
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14-153	High-Frequincey Rectification Efficiency of	14-169	Magnetcon Cathode Studies, Progress Report,
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14-154	Operating Characteristics of Multivibratures and Cates, Progress Report No. 1, D. A. Wil-	,	mary of Projects, Division 14, NDRC, July
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	port No. 2, D. A. Wilbur, Rensselaer Polytechnic Institute, June 1, 1943, OEMsr. 781.	14-172	The Theory of Dark-Trace Tubes, II, F. Seitz,
	Div. 14-212.7-M6		O. Stern, 1. Estermann, R. J. Maurer, Car- negie Institute of Technology, Sept. 1, 1943,
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	Line and RC Pulsing Circuits, J. V. Lebacqz, T. W. Jarnie, University of California, June	14-173	Ionization of Donutor Levels in Crystal Recti- fiers by Thermal Agitation, A. W. Lawson,
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	[My. 14-251,0-344	14-188	
14-175	Crystal Clock Praject and 10-Ke Oscillature		Division 14, NDRC, Sept. 28, 1943.
	Progress Report, W. C. Elmore, J. F. Mar-		Div. 14-520-M1
	shall, D. L. Goldwater, W. F. G. Swann, Bar-	14-189	Noise in Silicon Rectifiers at Low Tempera-
	tal Research Foundation, The Franklin Insti-		tures, Andrew W. Lawson, P. H. Miller, W. E.
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	Div. 14-327.114-M4	14 100	Final Report of Research and Development
14-176	Scaling and Relative Efficiency of Different	14-190	
	Sized Magnetrans, W. F. G. Swann, Bartol		Canducted on Lighthouse Tube Transmitter-
	Research Foundation, The Franklin Institute,		Receiver Units, R. G. Cinpp, Phileo Corpora-
	Aug. 6, 1943, OKMsr-358, Div. 14-232,19-M9		tian, Sept. 20, 1943, OFMsr-832,
14-177	Darkening and Bleaching of KCL, I, 1. Ester-		Div. 14-310,212-M3
	mann, O. Stern, G. I. Kirkland, Carnegie	14-191	Airhorne Loran Equipment, A. F. Bischoff,
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			OEMsr-723, Div. 14-327,1-M2
	900. Div. 14-242.232-M5		
14-178	Two Nutes on the Potentials Developed in	14-192	The Captive Radionande and Wired Sande
	Cathode-Ray Seccens during Rombardment,		Techniques for Detailed Low-Level Meteuro-
	F. Seitz, Carnegie Institute of Technology,		Ingical Sounding, P. A. Anderson, C. L. Barker,
	Sept. 1, 1948, OEMsr-900. Div. 14-242.232-M6		K. E. Fitzsimmons, S. T. Stephenson, Wash-
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	and Riverhead, Lung Island, G. S. Wickizer,	14-193	Crystal Clock Project and 10-Ke L-C Oscilla-
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14-181	Rifect of Tapping on Bacrier Capacity,		Conditions, A. W. Lawson, P. H. Miller, W. E.
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	Powees, A. W. Lawson, P. H. Miller, L. 1.		America, July 1, 1943, OEMsr-684,
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14 100	Dív. 14-233,112-M10	14-197	Camparison of Wedge and Cone Contacts as
14-183	Memoranda on the May 1943 Meeting on Dock-		Fox Silicen, Andrew W. Lawson, Margaret N.
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14-186	Behaviour of Westinghouse Silicon as a Low-	14-200	Lodor Pulse-Direction-Finding Receiver, G.
	Level Detector, Andrew W. Lawson Manager		
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	- Transes, I rayress Rejart		of Law-Level Detectors, A. W. Lawson, M. N.

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Rocket Tossing Theory, A. Landon, C. F. Eve, OD-SP-90, National Bureau of Standards, Feb. 24, 1945. Div. 14-329.17-M15

Exact Solution of Toss Bombing Equations for Circular Pull-Up, S. II. Lackenbruch, A. London, C. F. Eve, OD-SP-08, National Bureau of Standards, Mar. 23, 1945. Div. 14-329.17-M16

Runge Limitations Besulting from Approximations in Toss Bombing Equations, S. H. Lachenbruch, OD-SP-105, National Bureau of Standards, Apr. 16, 1945.

Div. 14-329,17-M17

Range Wind Correction for Toss Bombing, A. London,
C. F. Kve, OD-SP-107, National Bureau of Standards, June 5, 1945.

Div. 14-329,17-M18

₱ Function for Nonconstant Pull-Up Acceleration, C. F. Eve, A. London, OD-SP-123, National Bureau of Standards, July 10, 1945.

Div. 14-329.17-M20
The Effect of Sight Misalignment and Angle of Attack

The Control of Sight Misalignment and Angle of Attack

The Control of Sight Misalignment and Angle of Attack

The Control of Sight Misalignment and Angle of Attack

The Control of Sight Misalignment and Angle of Attack

The Control of Sight Misalignment and Angle of Attack

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The Control of Sight Misalignment and Angle of Attack

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The Effect of Sight Misalignment and Angle of Attack Variotion, S. H. Lachenbruch, OD-SP-131, National Bureau of Standards, July 23, 1945.

Div. 14-329.17-M2I

RI

RI

RI

RL

RI

RL

Div. 14-329,17-M14

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Rocket Sights, Second Supplement to Research Technical Report No. 10, L. E. Thompson, Laboratories, Naval Ordnance Plant [The Lukas-Harold Corporation] Indianapolis, Indiana, June 30, 1945.

Div. 14-823.6-M7

Toss Bombing, Research Technical Report No. 16, L.
T. R. Thompson, Laboratories, Naval Ordonee
Plant [The Lukas-Horold Corporation] Indianapolis,
Indiana, June 30, 1945. Div. 14-329.17-M19

### ROYAL AIRCRAFT ESTABLISHMENT (GREAT BRITAIN)

The Stability of Village Inn Mark I and Means of Improving It, Fire Control Section Memorandum No. 97, Report No. Arm. S. 1031/B/AAII/99, June 1944. Div. 14-323.31-M2

Notes on a Method of Obtaining Operational Stability in AGL, Mark I [and] GGS Systems, Fire Control Section Memorandum No. 98, Report No. Arm. S. 1031/J/AAH/135, July 1944. Div. 14-323,31-M3

### TELECOMMUNICATION RESEARCH ESTABLISHMENT (GREAT BRITAIN)

Errors Arising from the Use of a Repeater Aircroft with Oboc, TRE Report No. T-1448, WA-813-8N, Apr. 30, 1943.

Oboc, Electric Mouse, TRE Report No. T-1500, WA-

829-3a, May 11, 1942. Div. 14-329.132-M1 Oboe, How It Works, TRE Report No. 41M-101/JENH, WA-986-2a, July 2, 1943. Div. 14-329.132-M3

### PART II

### NUMERICAL INDEX OF RADIATION

### LABORATORY REPORTS

	Regular Reports	RL-18 (C-6)	Relation of Rudur Runge to Fre- quency and Polarization, J. A. Strat-
RL-1 (A-1S)	B-18-A Report, February 13 to July 22, 1941, E. M. McMilian, Aug. 5,		ton, R. A. Hutner, Nov. 3, 1942.  Div. 14-12j.1-M5
DT 0 (1 00)	1941. Div. 14-326-M2	RL-19 (C-7)	Change of Polarization as Means of
RL-2 (A-2S)	Report on XP-61 Mock-up, F. D. Lewis, Apr. 23, 1941.		Gup Filling, R. A. Hutner, Jan. 28, 1943, Div. 14-123-M1
RL-3 (B-1)	Div. 14-326-Mj On Conical Scanning, Mar. 24, 1941. Div. 14-234.321-M1	RL-20 (C-8)	Praperties of the Diffracted Wave Field Intensity, R. A. Hutner, E. Lyman, Feb. 12, 1943.
RL-4 (B-2)	On Airceaft Radio Sight, May 14,		Div. 14-111-M7
RL-5 (B-3)	1941. Div. 14-323.12-M1 Third General Report on Section Ac- tivitive, May 14, 1941 to November 14, 1941, Nov. 15, 1941. Div. 14-244-M1	RI-21 (C-9)	Rodar Height Finding, R. A. Hutner, H. Dodson, J. Giii, B. Howard, F. Parker, J. A. Stratton, Apr. 6, 1943.
RL-6 (B-1S)	Special Report on Data Teansmission	RL-22 (C-10)	Div. 14-322-M1 Transmission at Low Altitudes over
	by Means of Selsyns, 1. A. Getting,		Sea Water, R. A. Hutner, F. Parker,
Df 7 (D 90)	Nov. 6, 1941. Div. 14-214.2-M1 Special Report on Bolometer Blind-		B. Howard, H. Dodson, J. Gili, Sept.
RL-7 (B-28)	Londing System, B. Chance, D.	RL-23 (C-11)	1, 1943. Div. 14-122.122-M6 Field Intensity Formulos, R. A. Hut-
	Griggs, R. C. Raymond, Dec. 15, 1941.	1112-20 (0-11)	ner, H. Dodson, J. Gill, F. Parker, B.
	Div. 14-325-M1		Howard, Sept. 28, 1943.
RL-8 (B-3S)	Report on Preliminary Results with the XT-1, November 15 to December	RL-24 (D-1)	Div. 14-111-M8
	24, 1941, Div. 14-244.21-M1	KL-24 (I-1)	Advance Development of 3.3-Cm Sys- tem, N. F. Ramsey, R. M. Alexander,
RL-9 (B-4S)	Errara in Rauge Measurement with a Circular Sweep, Jan. 24, 1942.		S. Roberts, May 20, 1941. Div. 14-210-M1
E-17 (1970) 189	Div. 14-243.3-M1	R1-25 (D-2)	3-Cm System Group Report, R. M.
RL-10 (B-5S)	Improvements in the Spot-Error Indi- cator, Feb. 6, 1942. Div. 14-242.12-M2	D. 0.0 (1) 0)	Alexander, S. Roberts, July 5, 1941.
RL-11 (B-6S)	Tuning the RF Components of a Sys-	RL-26 (D-3)	Measuring Instruments for 3 Cm, S. Roberts, R. II. Dicke, J. S. Foster,
	tem (Lauron Technique), R. A.		Mar. 9, 1942. Div. 14-251.9-M3
707 10 10 100	Dehn, Feb. 20, 1942. Div. 14-233-M2	RL-27 (D-4)	Airborne 3-Cm Rodor Equipment for
RL-12 (B-7S) RL-13 (C-1)	Sclayns, Apr. 1, 1942, Div. 14-214.2-M2 Microwave Interference Patterns, J.		AI and ASV Applications, N. F. Ranssey, May 22, 1942.
**************************************	A. Stratton, Mar. 7, 1942.		Div. 14-326.1-M2
	Div. 14-I2I.1-M3	RL-28 (F-1)	Report of the System Group, L. W.
RL-14 (C-2)	Transmission on 3,000 Me over Sea		Alvarez, Jan. 30, 1941.
	Wnter, J. A. Stratton, July 14, 1942. Div. 14-122.122-M4	RL-29 (F-1S)	Div. 14-502-M1  Bracon Discrimination Circuit, J. II.
RL-15 (C-3)	Transmission on 190 Me over Sea	MD-20 (1-10)	Buck, Nov. 15, 1941.
	Water, J. A. Stratton, July 14, 1942.		Div. 14-328,22-M1
TIL TO COLD	Div. 14-122.122-Mi	RL-30 (G-1)	Interim Report of the Problems and
RL-16 (C-4)	Transmission on 200 Mc over Sen Water, J. A. Stratton, July 14, 1942.		Activities of Group G, K. T. Bain- bridge, Jan. 12, 1942.
	Div, 14-122.I 22-M2		Div. 14-310.12-M1
RL-17 (C-5)	Transmission on 500 Me over Sea	RL-31 (G-2)	Thyratron Serve Control Circuit for
	Water, J. A. Stratton, July 14, 1942. Div. 14-122.122-M3		Spinners, J. Millman, Apr. 4, 1942, Div. 14-214.8-M1
	DIV. 14-122.122-Ma		evite TE-PIZ-NATI

RL

RL

RL

RL-

RL-

RL-8

RL-8

RL-8

44				
RI32	(0-1)	Present Status of Radiation Labora- tory, L. A. DuBridge, Jan. 12, 1942. Div. 14-501-M5		Regular Report on the USS Semmes 3,000-Me Operations, Oct. 1, 1941. Div. 14-310.31-M2
		1)(4), 14-901-310	PI_SI (R.IV-5)	Regular Report on the USS Semmes
RL-33	(P-1 to 6)	Present Status of Radiation Labora-	1673-D1 /40 1>	3,000-Me Operations, R. M. Ember-
		tory Program, December 9, 1942 to		son, Nov. 5, 1941. Div. 14-310,31-M2
		July 1, 1943, D. H. Ewing.	m. en (2 137 d)	Regular Report on the USS Semmes
		Div. 14-501-317	RINE (R-IA-4)	3,000-Me Operations, R. M. Ember-
RI_34	(OP-1)	Maintenuage Experience with ASV		
	(,	Equipment, July 27, 1942.		son, Dec. 10, 194I. Div. 14-310.31-M2
		Div. 14-310,211-M9	(R-V-1)	Incorporated in RL-40.
RI.35	(OP-2)	Correlation of ASY Equipment with	RL-53 (R-V-2)	Regular Report on the X-JO-3, J. F.
••••	(	the Bombeight, B. L. Havens, D. R.		Koehier, Oct. 1, 1941.
		Corson, July 24, 1942.		Div. 14-242.3.M1
		Div. 14-310.211-M10	(R-V-3)	No report. (Group Report) see Sup-
RL-36	(R)	Roof System Reports, August 26, 1941		plement to RL-417.
1412-00	(10)	to September 24, 1941. Div. 14-502-M2	RL-54 (R-V-4)	Regular Report on the X-JO-3, J. F.
PI_27	(R-1S)	Roof System Report, Initial Develop-		Kochier, Nov. 5, 1941.
102-11	(26-210)	ment, February 15 to April 1, 1941.		Div. 14-242.3-M1
		Div. 14-502-M2	RL-55 (R-V-5)	Regular Report on the Navy Diri-
90.10	(R-2S)	Report of Operations [10-Cm Radar]		gible K-3, E. S. Hudspeth, Dec. 10,
VIV-00	(16-60)	on USS Semmes, July 17, 1941.		1941. Div. 14-310.211-M4
		Div. 14-310.31-M1	(R-VI-1)	lecorporated in R140.
D. T. O.O.	(T) 001			Regular Report on Spinners and
KL-39	(R-3S)	Navy Roof, etc., Aug. 26, 1941. Div. 14-501-M3		Radiators, R. G. Herb, Oct. 15, 1941.
	(T) ((1))			Div. 14-234,6-M1
KL-40	(R-4S)	Roof System Reports, Aug. 26, 1941	RL-57 (R-VL-3)	Regular Report on Spinners and
		to Sept. 24, 1941. Div. 14-502-M2	14.5-01 (14.41.0)	Radiators, Nov. 26, 1941.
	(R-I-1)	Incorporated in RL-40.		Div. 14-234.6-M2
RL-41	(R-I-2)	Regular Report on the Components	(42-3/41-1)	Incorporated in RL-40.
		Testing System, L. B. Linford, Oct.		) Regular Report on the XT-3, The 10-
		8, 1941. Div. 14-232.19-M4	WIN-00 (W-AII-S	
RL-42	(R-I-3)	Regular Report on the Components		Cm Truck System, S. Seely, Oct. 22, 1941. Div. 14-310.11-M1
		Testing System, L. B. Linford, Nov.	TOT TO / 10 TOTAL III	
		12, 1941. Div. 14-232.19-M4	1/17-40. (1f-A 11-9	) Regular Report on the XT-3, Nov. 26,
RL-43	(R-I-4)	Regular Report on the Components	/T 30411 4	1941. Div. 14-310.11-M2
		Testing System, D. Bagiey, Dec. 17,		) Incorporated in RL-10.
		1941. Div. 14-231.2-M1	RL-60 (R-VIII-2	Regular Report on the Maintenance
		Incorporated in RL-40.		Group, Oct. 22, 1941.
RL-44	(R-I-2S)	Special Report on Buffered Multiple	454	Div. 14-501-M4
		Phase Box, L. B. Linford, S. Seeiy,	RL-61 (R-VIII-3	Regular Report on the Maintenance
		Oct. 9, 1041. Div. 14-235,1-M1		Group, R. H. Schuman, Nov. 26, 1941.
	(R-II-1)	Incorporated in RL-10,		Div. 14-501-M4
RL-45	(R-II-2)	Regular Report on the Operation of	(R-IX-1)	Incorporated in RL-40.
		the Sereen Cage, A. Longacre, Oct.	RL-62 (R-IX-2)	Regular Report on the B-24, Oct. 29,
		8, 1941. Div. 14-251.9-M1		1941. Div. 14-310.211-M1
RL-46	(R-11-3)	Regular Report of the Advanced De-	RL-63 (R-1X-3)	10-Cm ASY Equipment on LB 30 Air-
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	velopment System, L. B. Linford,		planes, D. L. Hagler, June 2, 1942.
		Nov. 12, 1941. Div. 14-310.14-M1		Div. 14-310.211-M8
	(R-III-1)	Incorporated in RL-40.	(R-X-1)	Incorporated in RL-40,
RL-47	(R-111-2)	Regular Report on Indicators and	RL-64 (R-X-2)	Regular Report on the PRM-1, R. G.
	(10-111-2)	Sunchroniana P E Mantagora and		Herb, Oct. 29, 1941.
		Synchronizers, R. E. Meagher, Oct. 15, 1941, Div. 14-232-M4		Dév. 14-310.211-M2
RT_40	(B.III av	15, 1941. Div. 14-242-M4	RL-65 (R-X-3)	Regular Repart on the CXBII-1,
	(26-111-0)	Regular Report on Indicators and		(PBM-1) J. F. Kochler, Dec. 3, 1941.
		Synchronizers, R. E. Meagher, Nov.		Div. 14-310.211-M3
		19, 1941. Div. 14-242-M5	RL-66 (I-I)	Pulsers, Dec 2, 1940, Div. 14-231,4-M1
DT_40	49 TOT 45			
RL-49	(R-III-4)	Indicators and Synchronizers, R. E.	RL-67 (I-2)	Palsers, Dec. 27, 1940
RL-49	(R-III-4)	Meagher, E. C. Poliard, Dec. 24, 1941.	RL-67 (I-2)	Pulsers, Dec. 27, 1940.
		Meagher, E. C. Poliard, Dec. 24, 1941. Div. 14-242-Ms	100 SA	Div. 14-231.4-M1
	(R-IV-1)	Meagher, E. C. Poliard, Dec. 24, 1941. Div. 14-242-M6 No report.	RL-68 (I-3)	Div. 14-231.4-Ml Pulsers, Feb. 1, 1941.
	(R-IV-1) (R-IV-2)	Meagher, E. C. Poliard, Dec. 24, 1941.  Div. 14-242-M6  No report.  Incorporated in RL-40.	100 SA	Div. 14-231.4-M1 Pulsers, Feb. 1, 1941. Div. 14-231.4-M1
	(R-IV-1) (R-IV-2)	Meagher, E. C. Poliard, Dec. 24, 1941. Div. 14-242-M6 No report.	RL-68 (I-3)	Div. 14-231.4-Ml Pulsers, Feb. 1, 1941.

RL-70 (1-5)	Modulators, May 11, 1941.	RL-91 (III-1)	Report of Parabida Section, Dec. 2,
RL-71 (I-6)	Div. 14-231-M2 Report of the Modulator Group, July	R192 (1II-2)	1940, Div. 14-501-M1 Report of Parabola Section, Dec. 16,
RL-72 (1-7)	31, 1941. Div. 14-231-M3 Regular Report of Modulator Group,	RL-93 (111-3)	1940. Div. 14-501-MI Report of Parabola Section, Jun. 22,
RL-73 (I-8)	Nov. 4, 1941. Div. 14-231-M4 Peak Currents from Carhacized	R1-94 (111-1)	1941. Div. 14-504-M1 Antenna Group, Feb. 14, 1941.
	Thoriated Tungsten Cathudes, W. II. Bostick, Mar. 20, 1942.	R195 (III-5)	Div. 14-234-MI Report of the Antenna Group, Mar.
RL-74 (I-1S)	Div. 14-232.142-M1 Instruction Manual Browning Type	R1,-96 (111-6)	12, 1941. Div. 14-234-M1 Repact of the Antenna Group, May 1,
DI 75 (100)	A Synchronizer, F. J. Gaffney, Oct. 29, 1941. Div. 14-251-8-M1	R197 (111-7)	1941. Div. 14-234-M1 Report of the Automa Grace, July 1,
RL-75 (I-2S)	Report of Activities of Synchronizer Section, F. J. Gaffney, C. G. Mont-	RL-98 (111-8)	1941. Div. 14-234-MI Antenna Design and Pattern, L. C.
DI 74 (195)	gomery, P. D. Bales, Nov. 5, 1941. Div. 14-251.8-M2	B1 40 411 10)	Van Alta, Jun. 6, 1942. Div. 14-234.22-M2 A Study of Fanned Beam Radiators.
RL-76 (1-3S)	Test Set for Raytheon Service Modu- lator, Instructions for Operation and Testing B. D. Bales, New 5, 1911	R199 (111-10)	T. J. Keary, Feb. 20, 1942.
DI 55 (I 46)	Testing, P. D. Bales, Nov. 5, 1941, Div. 14-231,4-M2 R-F Envelope Indicator Instruction	RL-100 (1V-1)	Div. 14-234.32d-M1 Receivers, Dec. 2, 1940. Div. 14-241-M1
RL-77 (I-4S)	Manual, F. G. Dunnington, H. D. Doolittle, Dec. 10, 1941.	R1101 (IV-2)	Receivers, Dec. 20, 1940. Div. 14-241-M2
RL-78 (1-5S)	Div. 14-251.9-M2 Instruction Manual for Raythcon	R1-102 (1V-8)	Receivers and TR Bures, Fek, 4 1941. Div. 14-244-M3
ML-18 (1-05)	Service Modulator WX-3587A, H. J. Hall, Dec. 18, 1941.	RL-103 (IV-4)	Receivers, TR Boxen, Measurements. Feb. 4 to Mar. 28, 1941.
RL-79 (11-1)	Div. 14-231.4-M3 Transmitting Tube Section, Dec. 2,	RL-104 (1V-5)	Div. 14-241-M6 Receiver, Aug. 1, 1941,
RL-80 (II-2)	1949. Div. 14-232,113-M1 Transmitting Tube Section, Dec. 17,	ALC: 485 (2000)	Div. 14-241-M7 L'isit of Receiver Section to the Beli
RL-81 (11-3)	1940. Div. 14-232,113-M1 Transmitting Tube Section, Jan. 13,		Telephone Laboraturies, Mar. 7, 1941. Div. 14-241-M4
RL-82 (11-4)	1941, Div. 14-232,113-M1 Transmitting Tube Section, Jun. 28,	RL-106 (1V-2S)	Special Report on Receivers, Jane 24, 1941, Div. 14-241-Me
RL-83 (II-5)	1941. Div. 14-232.113-M1 Transmitter Tube Section, Mar. 18,	RL-107 (1V-4S)	Special Repart on Tuning Indicators and Automotic-Tuning Systems, H. G.
RL-84 (II-6)	1941. Div. 14-232.19-M1 Transmitter Tube Section, May 19,		Weins, Sept. 15, 1941. Div. 14-242,12-M1
RL-85 (11-7)	1941. Div. 14-232.19-M1 Transmitter Tube Section, July 1,	RL-108 (IV-88)	Special Report un Signal-to-Naise Measurements un Receivers, R. F.
RL-86 (11-1S)	1941, Div. 14-232.113-M1 Gnide to the Operation of 10-Cm		Bucher, Sept. 29, 1941, Div. 14-241.1-M1
	Standord Magnetrons, G. B. Collins, H. L. Stout, Oct. 20, 1941.	RL-109 (IV-68)	Special Report on 39 Me Pulsed Sig- aul Generatur, P. C. Mickel, Oct. 16,
RL-87 (II-2S)	Dlv. 14-232.113-M2 Special Report on Characteristics of	RL-110 (1V-7S)	1941, Div. 14-251.6-M1 Special Report an Comporation Signal
	3-Cm Magnetrons and Instructions for Their Operation, G. B. Collins, L. F. Moose, Dec. 19, 1941. Div. 14-232,112-M1		Naise Measucements on Crystal Mixers and Grounded Grid-Tube Mixers, Dec. 17, 1941.
RL-88 (II-3S)	Note on Design of Magnetrons, G. B. Collins, Feb. 9, 1942.		Div. 14-233,12-M1 A 1-Con Oneillator, Mar. 11, 1942. Div. 14-241,41-M1
RL-89 (II-4S)	Div. 14.232.1.M1 Woveywide Termination for Measure		I-F Amplifier Design, Apr. 3, 1942, Div. 14-241,52-M1
	ing Power at 3.2 Cm, R. T. Young, Jr., Feb. 24, 1942. Div. 14-233.412-M1		Transmission through Dielectric, L. J. Chu, Dec. 11, 1949. Div. 14-131.3-M1
RL-90 (II-5S)	Cathode Temperatures in Magnetrons, C. S. Robinson, Jr., Mar. 31, 1942.	RL-114 (V-18)	Theory of Radiotion from Paraboloi- dal Reflectors, L. J. Chu, Feb. 12,

RL-115 (V-28)	Noise and the Reception of Pulsee, J.		anits of Persistence Calculations) Feb. 28, 1941, Div. 14-242.2-M2
	C. Slater, February 13, 1941.	DT 194 (V1 95)	28, 1941. Div. 14-242.2-M2 Persistence Measurements, July 7,
DE THE RESERVE	Div. 14-125-M1 Impedance in Transmission Lines and	ET-190 (A1-512)	1941. Div. 14-242,233-MI
RL-116 (V-3S)	Waveynides, P. M. Morse, Apr. 15,	RL-137 (VI-4S)	Luminescence of RCA Cathode-Ray
	19.11. Div. 14-233.41-M1		Take with Caseade Screen, W. B.
RL-117 (V-4S)	Report on Night Fighter Pursuits, II.		Nottingham, Feb. 2, 1942.
112-111 (1 12)	M. James, June 13, 1941.		Div. 14-242.231-M1
	Div. 14-326.1-M1	RL-138 (V1-5S)	Indicator Components as Used in a
RL-118 (V-5S)	Theory of the Magnetroa Oscillator,		Complete Aircraft-Interception Instal.
	J. C. Slater, Aug. 1941. Div. 14-232.19-M2		lation, W. A. Higeabotham, Apr. 20, 1942. Div. 14-326-M3
RL-119 (V-6S)	Coincidence Method of Noise Reduc-	PL-190 (VII-1.2)	Klystron and C-II' Test Sets, Dec.
KL-113 (1-03)	tion, W. W. Hansen, Aug. 25, 1941.	1611-100 ( T 11-1pa)	19, 1940. Div. 14-241.411-M1
	Div. 14-125.2-3/1	RL-140 (VII-3)	Report of the Radio-Frequency Sec.
RL-120 (V-7S)	Couniderations Affecting Choice of	760	tion, July 7, 1941. Div. 14-232-M1
	Hurelength, K. T. Bainbridge, Sept.	RL-14I (VII-OS)	Design and Test of Concentric Trons.
22	24, 1941. Div. 14-121.1-M1		mission Lines, J. L. Lawson, July 15,
RL-12I (V-8S)	Microwave Transmission, J. C. Slater, Oct. 16, 1941. Div. 14-122.1-M1		1941. Div. 14-233,413-M <sub>11</sub>
RL-122 (V-98)	Theory of the Magnetron Oscillotor,	RI-142(VII-1S)	Tentative Simplified Explanation of
110-100 (1-00)	Electronic Orbits in the Cylindrical		the Lawson Line, July 25, 1941.
	Magnetron with Static Fields, W. P.	THE 140 / 1011 041	Div. 14-111-M2
	Allis, Oct. 1, 1941. Div. 14-232.19-M3	RL-148 (VII-28)	Special Report on Tunable Covities, Oct. 18, 1941, Div. 14-2[1,5-M]
RL-123 (Y-108)	Notes an Antenna Design, J. A.	RI_144(VII_38)	Special Report on Transmission Char-
	Stratton, L. J. Chu, Oct. 21, 1941. Div. 14-234.22-MI	M2-144 ( 11-011)	acteristics of Suggested Airplane None
PI_194 (V-118)	Report on Junction Effects in Wave-		Materials, Oct. 21, 1941.
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411			
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RL-190 (43-18)	Input Impedance and Tuning of Mag-	RL-208 (50-2)	Modulator Colloquium, April 16-17 1945, A. S. Jerrems, editor, June 9
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PI_199 (49.96)	Statistics of Circuit Noine, S. A.		Switch Modulators, J. M. LaRue, J.
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RL-196 (43-24)		PT-914 /51-195	Line-Controlled Blocking Oneillator
1015-100 (40-24)	Enhoes by Use of Model Targets, S.	******* (01.10)	W. O. Reed, Oct. 29, 1942.
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RL-197 (43-25)	Coupling brtween Inductive Windows		nant Charging Chokes, A. C. Dono
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RL-198 (43-26)	Farmal Theory of Waveguides of		S. Jerrems, A. E. Whitford, Apr. 13
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RL-200 (43-28)	Theory of Magnetran Operation, J. C.	KL-218 (51-17)	Oscilloscope Presentation of Hys
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RL-201 (43-29)	Numerical Calculation of Space-		Div. 14-251.71-M3
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RL-202 (43-30)	Excitation of Cavities through Win-		H. L. Rehkopf, June 1, 1943.
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RL-203 (43-31)	Application of Corner Reflectors to		Shift vs. Magnetron Box Tempero-
	Radar (Theucetical), R. D. O'Neai,		ture, H. 1. Stout, July 3, 1942.
	F. S. Holt, P. D. Crout, May 14, 1943.	Df 001 (50.0)	Dlv. 14-232.16-M1
Df 004 (10 00)	Div. 14-267-M1	RL-221 (52-2)	RF Loading of 10-rm Magnetrous, F.
K13-204 (48-32)	Une of the Range Clock in Night		F. Rieke, J. E. Evans, Aug. 24, 1942. Div. 14-232.113-M4
	Fighting with AI Equipment, 11. M, James, Apr. 28, 1943.	RL-222 (52-3)	
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RL-205 (43-34)	Theory of Obstacles in Resument Cari-	RL-223 (52-4)	Magnetron Strapping Wavelength
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K1205 (43-35)	Theory of Circular Reads in Rec-		Div. 14-232.13-M2
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RL-225 (52-6)	Frequency and Spectrum Character- istics of Standard Magnetrons and	RL-242 (53-11)	
	the Effect of Change of Shape of		Div. 14-233.12-M8
	Current Pules, R. T. Young, Jr., Mar.	RI_243 (53-12)	Rotary Joints with E.Stub Trans-
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RL-226 (52-7)	Practical Considerations of Magne-		1942. Div. 14-233.421-M3
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RL-227 (52-8)	Perfactances Characteristics of the		Div. 14-131,3-M2
	Magnetren under Coeditions Simulat- ing Bencon Operation, Tube Types	RL-245 (53-14)	Design Characteristics of Spinner
	2J38 and 2J22, K. R. More, June 30,		Honeing Materiale, E. B. McMillan,
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RL-228 (52-9)	Speetra of Magnetrana for Long	RL-246 (53-15)	Microwace Wattmeter, Part II, 3-em
	f'idaes, R. T. Young, Jr., July 5,		ned 1-en, M. H. Johason, J. B. Wies- ner, Jaa. 21, 1943, Div. 14-252.4-M3
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RL-229 (52-10)	Analysis of Magnetran Performance,	1612-241 (00-10)	tivities of Series and Shunt TR June-
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KD-200 (02-11)	including Correlation with Tube Per-		Aluminum by Gascone Dielectrics, C.
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RL-231 (53-1)	Tracemiceian Line Construction De-		Leakage Power, L. D. Smullia, Mar.
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RL-232 (53-2)	Stab Supports in %-lech Considi	RL-200 (00-20)	X-Band Measurements at Low Pressure, T. S. Saad, May 18, 1943,
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RL-233 (53-3)	Operating Characteristics of the 707A	RL-251 (53-21)	Operating Characteristics of the 419
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	Reflex Oscillator, McNally Tube, San-		Cuble, F. E. Ehlers, Apr. 28, 1943.
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RL-235 (53-4)	Operating Characteristics of the 417		erte, July 3, 1943. Div. 14-233.14-M2
	Reflex Klystron, C. S. Robinson, Jr.,	RL-254 (53-24)	
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R1236 (53-5)	Temperature-Compensated 707A (Mo-		bation to Crystal Failures, F. L. Mc-
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	Aug. 25, 1942. Div. 14-241.413-M2		1943. Div. 14-233.811-M2
RL-237 (53-6)	Phase Distortion in Broad-Band Stub	RL-255 (53-25)	Capacity (Choke) Couplings as Rigid
	Supports, R. V. Pound, Aug. 17, 1942.		and Nonrigid Waveguide Connectors,
DT 000 (F0.0)	Div. 14-233,421-M2		J. Reed, G. L. Ragan, H. K. Farr, M.
RL-238 (53-7)	Preplanding of Tees for G-Band, R. V. Pound and R. Berger, Nov. 3, 1942.		Clark, Aug. 27, 1943. Div. 14-233.422-M7
	Div. 14-233.31-M1	RL-256 (53-94)	Testing of IN21 Navy Crystal Recti-
	Microwavs Wattmster, Part I, M. II.	1011-200 (00-20)	fiece, H. B. Huntington, S. Roberts,
RL-239 (53-8)			
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20			
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R1,-258 (54-9)	Effect of Paraholoid Size and Shape	R1-275 (54-27)	Report of Conference on Rajod Senn-
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(54-10)	Sec RL-99 (11I-10).	RL-276 (54-28)	The Antenna Stide Rule, Series L, R.
RL-259 (54-11)	Grophical Analysis of Beam Patterns		C. Spencer, June 3, 1943.
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	Sydoriak, L. C. Van Attu, June 11,	RL-277 (55-1)	The Resonant Echo Box, W. H. Fenn,
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RL-260 (54-12)	Pillion Antenna for Glide Poth, C. V.	RL-278 (55-2)	Multiple Pulse Generators, W. O.
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RL-261 (54-13)	Same Matching Properties of Antenna		Mennirement at 10 Cmn in Conx, R.
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DT 000 (E4 14)		RL-280 (55-4)	Application of Corner Reflectors to
KL-202 (04-14)	3-Co Bulameter Detretor Snitude fur Field Measurements (Type Y), S.		Radar (Experimental), R. D. O'Neal, July 1, 1943. Div. 14-267-M2
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200 (01-21)	Laboratory Paraboloid Reflectors, L.	RL-289 (61-7)	Noise Mensurements on Microwave
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RL-331 (63-14)   ARO Rauge Followe-np Unit, J. R.   Rogers, Mar. 19, 1943.   Div. 14-243.2-M2   RL-332 (63-15)   ARO Range Unit, E. F. MacNichol, Jr., Apr. 9, 1943   Div. 14-243.2-M2   RL-333 (63-16)   Model II Calibrator, R. Chance, Apr. 1, 1943.   Div. 14-251.2-M2   RL-334 (63-17)   A Vallage-Compensated Delay Multivibrator, C. R. Ahern, A. B. Jacobsen, B. Chance, Mar. 15, 1943.   Div. 14-212.7-M3   RL-335 (63-18)   Externally Triggered Circular-Sweep Amplifers, V. W. Rughes, P. F. Brown, May 6, 1943. Div. 14-241.3-M2   Equipment, J. W. Gray, June 1, 1943.   Div. 14-225.M2   RL-337 (63-20)   Delayed Sweep for SCR-82-X, B. Chance, June 11, 1943.   Div. 14-242.5-M2   RL-338 (63-21)   An Adaptation of the Phantastron Delay Multivibrator Circuit to the SSA 7 Table, R. Kelner, V. Hughes, A. Berg, P. Hinkle, B. Chance, Aug. 21, 1943.   Div. 14-223.3-M2   Pulsad Oscillator and Phase Shifter Range Circuit with Sine-Wave Tracking Suitable for Microsave Height-Finding Stations, A. H. Frederick, June 39, 1943.   Div. 14-322.3-M2   Pulsad Oscillator and Phase Shifter Range Circuit with Sine-Wave Tracking Suitable for Microsave Height-Finding Microsave Height-Finding Microsave Height-Finding Microsave Height-Finding Microsave Relath-Finding Relations of Relations	KL-339 (63-13)	Marker Generator ARO Calibrator, A. H. Frederick, Apr. 8, 1943.	RL-348 (64-5)	Photography of Successive Pulse Reflections from a Moving Target, J. L.
RL-332 (63-15)   ARO Range Unit, E. F. MacNichol, Jr., Apr. 9, 1943   Div. 14-243.2-M2   RL-333 (63-16)   Model II Calibrator, R. Chance, Apr. 1, 1943.   Div. 14-251.2-M2   A Vultage-Compensated Delay Multivibrator, C. R. Ahern, A. B. Jacobsen, B. Chance, Mar. 15, 1949.   RL-335 (63-18)   Div. 14-212.7-M3   Externally Triggered Circular-Sweep Amplifers, V. W. Hughes, P. F. Brown, May 6, 1943. Div. 14-231.3-M2   RL-336 (63-19)   Calibrator for Low-Allitude Bombing Equipment, J. W. Gray, June 1, 1943.   Div. 14-225M2   An Adaptation of the Phantastron Delay Multivibrator Circuit to the 8XA 7 Take, R. Kelner, V. Hughes, A. Berg, P. Hinkle, B. Chance, Aug. 21, 1943.   Div. 14-222.5-M2   Al Coulenser Phase-Skifter Range Circuit with Sine-Wave Tracking Suitable for Microwave Height-Finding Stations, A. H. Frederick, June 39, 1943.   Div. 14-232.3-M2   RL-340 (63-23)   Palard Oscillator and Phase Skifter, C. R. Gamertsfelder, July 22, 1943.   Div. 14-251.61-M1   Antomatic Range and Azimuth Traching nkile Scanning, A. B. Jacobsen, F. B. Coffin, W. B. Jones, Jr., B. Chance, Aug. 39, 1943.   Div. 14-231.3-M3   No report.   RL-356 (65-2)   BGS 10-Cm Radar Bencon, R. R. Scanning, A. B. Jacobsen, B. Chance, Aug. 39, 1943.   Div. 14-231.3-M3   No report.   RL-356 (65-2)   BGS 10-Cm Radar Bencon, R. R. Scanning, A. B. Jacobsen, F. B. Coffin, W. B. Jones, Jr., B. Chance, Aug. 39, 1943.   Div. 14-231.3-M3   No report.   RL-357 (65-1)   RL-358 (65-2)   BGS 10-Cm Radar Bencon, R. R. Scanning, R. B. Jacobsen, B. Chance, Aug. 39, 1943.   Div. 14-231.3-M3   No report.   RL-358 (65-2)   BGS 10-Cm Radar Bencon, R. R. Scanning, R. R. Scann	RL-331 (63-14)	Rogers, Mar. 19, 1943.	RL-349 (64-6)	Div. 14-264-M1 Measurement of the Q-Value of a TR
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	10iv. 14-243.2-M4	RL-534	Synce Charge between Parallel
RL-517	S-Band Horizontally Polarized Non- directional Antennas, H. J. Riblet, Feb. 14, 1944. Div. 14-234.111-M1		Place Grids, J. K. Knipp, Mar. 22, 1944. Dlv. 14-113-M3
RL-518	Palue Shapen and R-F Spectra for Cambinations of Strombery-Carlson Mark I and Murk II Modulators with 2322, 2321, and 725A Magnetrons.	R L-535 R L-536	A Hard-Tube Servoanglifier for Fractional Horsepower DC Motors, W. K. Hodder, Mar. 14, 1944. Div. 14-214.3-M5 Pularization Studies at S and X Fre-
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RL-519	Div. 14-124.2-M3 Aspen Airborne Antenna, 11. J. Riblet, Aug. 25, 1944. Div. 14-329.132-M9	RI_537	bank, J. D. Fnirbank, Mar. 14, 1944, Div. 14-123-M4
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RL-521	Div. 14-211.1-MI  A Diode-Type Pulse Voltmeter, O. T. Fundingsland, A. S. Jerrems, July 6, 1944. Div. 14-252.2 MI	RI_538	14, 1944. Div. 14-322.1-M6  Performance of Compling for 1½-In. hy 3-In. If aveguide, H. F. Webster, Mar. 6, 1944. Div. 14-233,422-M10
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RL-542	Div. 14-232.15-M1 Lighthouse RF Envelope Indicator,	RL-559	Final Report on SMTR to January 1944, C. F. Chubb, June 18, 1944.
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RL-543	Crystul Life Tests under Fint Pulses, H. B. Huntington, Apr. 7, 1944.		W. L. Flock, June 16, 1944, Div. 14-242.3-M10
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RL-545	The Evuluation of un Equivalent Circuit for a Pulse Transformer, W. H. Bostick, P. R. Gillette, H. L.		Mossic, R. A. McConnell, A. G. Emslie, F. Cunningham, June 6, 1944. Div. 14-263-M1
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RL-546	Analysis of the Influence of Pulse Transformers on Current Pulse	RL-564	Div. 14-242.5-M3  Ricke Diagrams and Frobe-Plate
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RL-548	A Littlefuse Direct-Rending Wott- meter, C. M. Sorvang, Apr. 28, 1944. Div. 14-222.41-M7	RL-567	Mugnetron Tuning and Stabilization, W. V. Smith, July 13, 1944. Div. 14-232.16 M7
RL-549	Modul 6, Modulator Performance Testa, P. C. Hettler, Apr. 22, 1944, Div. 14-231.3-M5	RL-568	Further Measurements of 3- and 10- Cm Reflection Caefficients of Sea Water at Small Grazing Angles, W.
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RL-555	Servon with Turque Saturation, Part		12, 1944. Div. 241.4-M3
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RL-556	Fading Simulator, W. Roth, May 10, 1944. Div. 14-412-M2		ham, W. L. Flock, May 26, 1944. Div. 14-243.1-M3
RL-557	Leaky Wureynide Rapid Seunner, J. Steinberger, Nov. 18, 1944. Div. 14-234.322-M3	RL-574	Yertehrae Type Flexible Waveguide, E. L. Younker, June 15, 1944. Div. 14-233.412-M16

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RL-576	A High Resolution E-Bund Ship Search Set, W. M. Fairbank, W. T.		at Boca Raton, Florida, January- March, 1944, R. P. Ghelardi, Aug. 12, 1944. Div. 14-328.121-M6
RL-577	Harrold, G. D. Sheckels, J. D. Fair- bank, Dec. 7, 1944. Div. 14-310.32-M2 S-Hamt Eml-Fire Array Antenna, H.	RL-592	Servon with Torque Saturation, Part II, W. Hurewicz, Sept. 28, 1944.
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RL,-578	Accorney Criterin for the Gun Direc- tor MK 56, R. S. Phillips, C. H. Dowker, June 9, 1944. Div. 14-323.32-M2		in TR Tubes, R. Levice, F. L. McMil- Ian, Jr., July 13, 1944.  Div. 14-283.81-M6
RL-579	Medium Precision Bunge System far CXGQ, Project Henry, G. Hite, Sept. 9, 1944, Div. 14-243.1-M4	RL-594	The 1H27 TR Tube, L. D. Smullin, H. A. Leiter, Oct. 4, 1944. Div. 14-233.31-M9
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RL-584	An H-B Impact Producting Computer Assuming Coastant Indicated Air- speed for Use with AN/APS-15A	RL-601-1	Antenna Mensuring Equipment, O. A. Tyson, Oct. 6, 1944. Div. 14-234.4-M6
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RL-586	Effects of Variation of Vane Width and Cuthode Size on the Operation of Maynetrons, M. Healea, Aug. 1, 1944.		Db Linear Andio Amplifier, O. A. Tyson, Aug. 23, 1944. Div. 14-234.4-M4
RL-587	Div. 14-232.113-M8  Dielectric Windows in Franceguide, R. M. Walker, June 29, 1944.	RI601-4	Antenna Mrannring Equipment, Auto- matic Antenna Pattern Recorder, O. A. Tyson, Jan. 16, 1945.
RL-588	Div. 14-233.423-M7 Performance Characteristics of Army- Navy Preferred Type Electrostatio	RL-602	Div. 14-234.4-M7 Statistics of Bracon Interrogation, H. H. Bailey, Feb. 5, 1945.
E 6893	Cathode-Ray Tabes, R. P. Abben- house, July 6, 1944. Div. 14-242.21-M3	RL-603	Div. 14-328-M3 Measurements of the Allenvation of
RL-589	Summary of Life-Test Into on Sylvania 4C35 Hydrogen Thyratrons, S. J. Krulikoski, Jr., Feb. 1, 1945.	R1~604	K-Band Waves by Rain, G. T. Rado, Mar. 7, 1945. Div. 14-122.13-M4 Vidra Stretching as a Method for Improving X-Band Heacon Reception,

RL-605	Trigger Requirements of the 4C35 and 3C45 Hydrogen Thyratrons, S. J. Krulikoski, Jr., Aug. 31, 1944. Div. 14-231.221-M4	RL-620	Stability of Magnetrons Operated by Spark-Gap Modulutors, D. F. Winter, II. A. Miley, Oct. 9, 1944. Div. 14-231.23-M3
RL-606	A Description of AN/TPS-10 and Its Performance in Mountainone Terrain, T. M. Moore, Aug. 3, 1944. Div. 14-322.1-M7	RL-621	Increasing Stability of Operation of 4321, 35 Magnetrons in the AN/CPS-1 System, D. F. Winter, II. A. Miley, K. R. More, Jan. 25, 1945.
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RL-608	Corner Reflectors for Life Rafts, E. L. Hudspeth, J. P. Nash, Aug. 1, 1944. Div, 14-267,1-M2	RL-623	D. F. Winter, H. A. Miley, Aug. 11, 1945. Div. 14-232.16-M9 S-Band Vertically Polarized Non-
RL-609	Cathodes far Pulsed Magnetrons, Part I. Correlations Between Oscillating		directional Antennas, II. J. Riblet, Dec. 20, 1944. Div. 14-234.111-M3
	and Diods Conditions, E. A. Coomes, J. G. Buck, A. Fineman, Aug. 30, 1944, [See RL-683 for Fart II.] Div. 14-232.143-M5	RL-624	K-Bund Conce? Autemas with a Lins Source und Shaped Cylindrical Re- flector, W. Slehak, E. M. Purcell, Nov. 3, 1944. Div, 14-234.113-M1
RI,-610	Matching Resistance Curves by Means of Two Linear Ganged Potentiometers and a Three-Terminal Resistance Net-	RL-625	The Fature of Hyperbolic Navigation, J. A. Pierce, Aug. 18, 1945. Div. 14-327-M4
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RL-611	Testing of Fixed-Tuned, Low-Q, ATR Tuhes, L. D. Smullin, Dec. 6, 1944. Div. 14-233.32-M1	RL-627	leuis, Equivalent Networks, P. D. Crout, Oct. 6, 1944. Div. 14-111-M10 Comparisan of Theoretical and Ex-
RL-612	Krrors in Target Visiocity Due to the Rolling and Pitching of the Skin, W. Hurewicz, Aug. 28, 1944. Div. 14-600-M5		perimental Requirements for Micro- wove Beacon Transmitter Power and Receiver Sensitivity, E. R. Gaerttner, T. H. Waterman, H. S. Gardner, Jr.,
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	H. Suits, Sept. 18, 1944. Div. 14-241.3-M5		tion of Calculations, P. A. Samuelson, Oct. 3, 1944. Div. 14-323.32-M3
BL-614	Nonograms for Radar Bombing with the 190-Lb Practice Bomb M38A2, W. M. Cady, Aug. 29, 1944. Div. 14-329.11-M1	RL-629	A Treatment of Echo-Box Problems by Lagrangian Pracedures, P. D. Crout, N. H. Painter, Jan. 13, 1945. Div. 14-251.3-M8
RL-015	Low-Altitude Navigation Antennas Decemped in Connection with AN/- APS-10, J. H. Gardner, Oct. 3, 1944.	RL-630	Theory of Ringing Time of Tunable Richo Boxes, A. Buños, Jr., Nov. 3, 1944, Div. 14-251.8-M6
RL-610	Div. 14-234.122-M5  Effects of Line- and Cathods-Follower  Terminations on Palss Shape, C.	RL-631	Design of an Improved X-Band Echo Rox, A. Baños, Jr., Dec. 7, 1941. Div. 14-251.3-M7
RL-617	Butt, Sept. 11, 1944. Div. 14-124.2-M4 Life Test of Contact Material on	RL-632	Field Station for Antenna Measure- ments, R. E. Hiatt, Feb. 26, 1945.
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RL-618	A Method of Virtual Displacements for Electrical Systems with Applica-	D7 604	felder, Dec. 6, 1044.  Div. 14-243.22-M1
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RL-619	Knergy Luss in Copper under Pulse Conditions, W. H. Bostick, Dec. 22,	RL-635	Linear Electric Scanner, J. S. Fos- ter, Jan. 6, 1945. Div. 14-234,324-M2
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RL-637	Div. 14-234.121-M2 Rentizability of Filters, H. Waiiman,	RL-646	22, 1946. Div. 14-412-M8 Parallel Plute Optics for Electrical
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RL-638	Video Receiver, R. Reringer, Nov. 16,	RL-647	Div. 14-234.324-M1 Overland Falcon, E. H. B. Bartelink,
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RL-639	SG-1 Antenna Mark 2, R. W. Thick- ens, Jan. 9, 1945.	RL-648	Ricetrical Design of the AN/TPS-10 Antenna, C. S. Pao, Dec. 28, 1944.
DT 440	Div. 14-234.121-M3 Antiniveraft Target Designation		Div. 14-234.123-M4
RL-640	Equipment for Ships, R. W. Blue, C.	RL-649	Over-il'ater Transmission Mensure-
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RL-64t	1B38 (Pre-TR), L. D. Smullin, Dec.		1944, Div. 14-122.22-M2
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RL-642	Design of n 4-Ft Corner Reflectur		in Reflex Oscillators, J. B. Garrison,
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RL-643	The Une of the Mugie Tee Microwave	RL-651	Modified Index Distribution Close to
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RL-644	Dielectric Properties of Water and Ire at K-Band, E. L. Younker, Dec. 4,		Tables, E. DeAmicis, Jan. 4, 1945.
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RL-645-1	QA-2B Servoudaptor, W. Roth, Dec.	RL-653	Flured Box Horn, S. J. Mason, July 9,
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RL-645-2	Q1-2 mul Q-3 Secvoamplifier, R. U.	RI654	Rotuting Corner Reflectors for Ship Identification, J. M. Sturtevant, Jan.
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RL-645-3	Div. 14-214.3-M12 H-3 Trigger Unit, S. B. Cohen, Feit.	RL-655	Shaping the Primary Pattern of a
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RL-645-4	The I-3 Signal Unit, S. B. Cohen,		Div. 14-234.21-M9
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RL-645-5	The J-2 Modulator Unit, E. M. Jones,		Rectungular Waveguide, J. R. Risser, Dec. 28, 1945. Div. 14-233,412-M25
R1645-6	July 19, 1945. Div. 14-412-M3  The H-2 Trigger Unit, S. B. Cohen,	RL-657	No report.
171-040-0	Aug. 7, 1945. Div. 14-412.2-M2	RL-658	A Microfilm Chart Projector for
RL-645-7	I-2 Signal Unit, S. R. Cohen, Aug. 30,		Rudar Navigation, D. B. McLaughlin,
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RL-645-9	Div. 14-422.1-M5 The ML-1A, ML-1B, and ML-3A		Keary, J. I. Bohnert, Mar. 7, 1945.
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RL-645-11	The S-5 and S-5B Motor Control	101-001	Reflections from Smooth-Curred Sur- fuces, R. C. Spencer, Jan. 26, 1945.
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RL-665	Stubilized SG-3 Autenna, J. I. Boh- nert, H. Krutter, Feb. 7, 1945. Div. 14-234.121-M4	RL-682-2	Division of Voltage Across Scries Spark Gaps in a Line-Type Modula- tor, J. R. Dillinger, F. R. Bothwell,
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RL-826	Pulsed-Interference Suppression, J. L.	KLESTO	Maddaus, Jr., Nov. 30, 1945.
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RL-827	Absorption Coefficient of a Styralog	RL-846	Six-Element Vertirolly Polarized Bea-
WIL-OUT	Filled Coaxial Line, II. Rowland,		con Antennas, I. Maddaus, Jr., Dec.
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RL-828	Technical Data and Operating Notes	RL-847	Broad-Band Test Loads, R. M.
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RL-829	Radiation Laborotory Modulator		in B-29 Airplanes, W. M. Cady, F. J.
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RL-830	A Duplex Communication System for	RL-849	Cindy Antenna, A High Revolution K-
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RL-831	3-Cm Vertebrae Flexible Waveyuide,	RL-850	Supersonic Delay Lines, 1I. Shapiro,
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RL-832	Flexible Waveyuides, F. T. Worrell,	RL-831	Broad - Band Biconicol Vertically
ML-002	Oct. 19, 1945, Div. 14-233,412-M23	MLI-001	Polarized Dipole, H. Rowland, Feb. 6.
RL-833	Noise Filtering Properties of Third		1946. Div. 14-328.21-M4
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	Div. 14-329.13-M3		Band, F. E. Ehlers, Dec. 4, 1945
RL-835	New Type Probe for Coaxial Stand-		Div. 14-233,422-M15
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RL-836	Dispersion of High-Frequency Radio		Div. 14-252.5-M2
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RL-837	Div. 14-122.12-M3		C. M. Gifbert, C. R. Haupt, Jan. 30,
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RL-840	Variable Width Waveguide Scanners		Function of Carrier Frequency, W.
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PT 219	Div. 14-233.424-M2		Data, L. G. Jones, Jan. 11, 1946.
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RL-862	A New Pilibox Feed, M. A. Taggart, Nov. 7, 1945. Div. 14-234.233-M1	RL-886	Three-Electcode Teiggered Gap, K. J.
R1,-863	Horn with Metal Lens, M. A. Tag-		Germeshausen, H. R. Zeller, Nov. 19, 1945. Div. 14-231.21-M10
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RL-864	The RL-270 Series of Precision Pa- tentiometers, R. J. Sullivan, Mar. 25.		Transformecs, P. R. Gillette, Nov. 8,
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RL-865	Summary of the Life Test Progesm		formec Designs, P. R. Gillette, Nov. 1,
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	Thyrateons, S. J. Krulikoski, Jr., Jan. 31, 1946. Div. 14-231,221-M9	RL-883	Pulse-Forming Network Committee, Proposed Busic Specifications for
RL-866	Airborne Rinck Maria Antenna, E. N.		Pulse-Forming Networks, P. R. Gil-
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RI_867	Div. 14-234,111-M9	RL-884	Analysis of the Tracking Ercors of the Mk 54X System, R. S. Phillips, C.
K12001	Analysis of a Half-Wane Rectifier Ciccoit Involving Inductance, Resis-		D. Doyd, Mar. 1, 1946.
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	Div. 14-234,233-M3		ford, E. Durand, Dec. 31, 1945.
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RL-872	Div. 14-234.111-M4 Measurements on Noise from Reflex		eral-Puepose Variable Delay Unit, R.
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KL-019	lator, J. K. Knipp, Jan. 16, 1946.		Urquhart, Dec. 19, 1945.
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DI ose	1946. Div. 14-323.12-M9 A Nuvigutional Radar for Naval		Bund-Pass TR's for Various Guses
RL-876	Auxiliacies and Mecchant Murise, R.		F. I., McMillnn, Jr., 1. H. Dearnley C. H. Pearsall, Dec. 18, 1945.
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R1,-900	Mechanical Computer Mechanism for		Foster, E. R. Perkins, M. M. Huli
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RL-904			
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R1, 906	The Application of Powdered Ican		Gilbert, Feb. 20, 1946.
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	Miccounter Frequencies, M. R. Hull,	RL-928	The SP Feed-In Trainer, S. B. Cohen
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RL-907	Trainer for Mark 35 Rudar, 11, O.		ecy Times of TR Resen, H. Margenau
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RI910	Off-Frequency C-IP Januaring, C. M.	RL-933	Alkaline Earth Oxide Cuthules for
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RI: 912	Shoct-Pulse Techniques fue High-Defi-	R19715	Notes on the Contamination of Mer-
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RL-913	Corner Reflector Modulation of Air-	RL-936	No report,
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RL-914	Modulation of Kadue Signals from		nizer) and IN-188/APA-53 (Cadillac
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RL-915	No report.	R1,-939	A Photographic Method for Annenn
KI-916			ment of Boulding Results, G. F.
W17-010	A Bennd Band Balanced Mixer for 8		Wheeler, Feb. 28, 1946,
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DT 017	Pulse-Longth Selector and Multiple-		Washburn, Mar. 21, 1946,
RI 917	Halas for the formal designation		
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Rt. 917	Pulse Decodec, R. M. Asldey, L. K. Neher, Mar. 21, 1946.	RL-941	
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Rt-917 Rt-918 Rt-919	Pulse Decodec, R. M. Asldey, L. K. Neher, Mar. 21, 1946.	RL-941	

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RL-946	No report.	RL-960	Measurement of Phase in Microwave
RL-947	No report.		Autenna Fields by Phase-Modulation
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RL-949	Propagation in an Atmosphere Con-		1946. Div. 14-234,4-M10
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RL-950	The Augular Alignment of Rudar Au-	RL-968	T-5 Field Chronograph for SCR 584,
	tenuas, E. M. Bailey, Mar. 29, 1946.		I. H. Sudman, Mar. 15, 1946.
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RL-951	AN/CPS-6 (V-Beam) Autenna, C. G.	RL-969	Dielectric Rod Endfire Antrunas Close
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RL-952	No report,	RI_970	X-Band Bandpass TR Tube, W. C.
RL-953	Hydragen Thyratrons in Pulse Gen-		Caldwell, Jan. 22, 1946,
	eratur Cirenita, S. J. Krulikoski, Jr.		Div. 14-233.31-M13
	Mar. 18, 1946. Div. 14-231.221-M10	RL-971	S. Bund Bundpuss TR Tubes, L. D.
RL-954	SB-846B S-Band Oscillator, J. C.	2117-011	Smullin, Jan. 23, 1946,
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RL-955	Automatic Frequency Control of	RL-972	X-Band Beacan Reference Cavities,
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RI_956	Distortion in X-Band Detectors, M.		APS-23 Antenna, J. R. Risser, A. M.
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RL-957	Video Discriminator Automatic Fre-	RI_974	K-Band Echo Line, J. M. Wolf, Mar.
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RL-958	Performance of Microwave Harmonic	2412-010	V. A. Olson, Apr. 3, 1946.
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RL-959	A Method fur Automatic Frequency		B. Barker, 11. Riblet, Feb. 1, 1940.
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1411-001	Polyrods and Refiretors, R. E. Dillon,	RL-978	A Synchranization System for Ground
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	Div. 14-234,6-M8		Samson, Jaz. 3, 1946.
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	Div. 14-423-M3		Div. 14-234.112-M5

	NY		tenna Assembly, C. F. Chubb, Jr.,
RL-982	No report.		Apr. 23, 1946. Div. 14-234.122-M18
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R15-5340	SCR-584 for Mortar Locotion, L. J. Sullivan, Apr. 3, 1946.		Sheets, D. F. Sherman, Mar. 14, 1946. Div. 14-234.22-M12
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RL-S-2 RL-S-3 RL-S-4 RL-S-5	Testing of Skinteans, Supplement, II. C. Kelly, R. W. Hull, W. D. Hope, May 6, 1944. Div. 14-242.22-M1. Turget Raft Transponder, D. R. Young, Jan. 27, 1944.  Div. 14-232.2-M1. Wolworth Wavegnide Bemils, R. M. Walker, Jan. 28, 1944.  Div. 14-233.422-M9. A Cumparison of Positive and Negative Intensity Modulation of PPI Displnys, L. J. Haworth, Jan. 26, 1944.  Div. 14-242.3-M9. A High Resolution Set, R. M. Emberson, Jan. 26, 1944. Div. 14-310.32-M5.	RL-S-21 RL-S-22 RL-S-23	Div. 14-262.1-M2  A Procedure for Statistical Analysis of Depth Soundings, F. B. Hilde- brand, P. D. Crout, July 29, 1944, Div. 14-600-M4  AN/APS-10 Airborne Radar, A. Longacre, July 12, 1944. Div. 14-321.1-M1  DOLPHIN, Remotely Controlled Tor- pedu Ruck Actuating Mechanism, G.

RL-S-59

E. Chisholm, E. Fine, J. Schwartz,

Radar Rombing Techniques, V. L.

Div. 14-112-M6

Div. 14-320.11-M2

Aug. 30, 1945.

Bostick, Apr. 30, 1940.

January, D. G. White, Feb. 3, 1945.

Cotalog of Microscave Test Equip-

ment, E. A. S. Jacobson, Editor, Aug

25, 1945,

RL-S-41

Div. 14-501-M13

Div. 14-121.2-M0

RL-S-60	Tables for 1/se with Torpedo Director		Texts
	March 33 Mod 1: Part I, Own Speed-	11	
	20 Knots; Part II, Own Speed-12	RL-T-1	Lecture Notes, J. C. Slater.
	Knots; Port Ill, Own Speed-14	RL-T-2	Notes on Microwaves, W. W. Hansen,
	Knots: Part IV, Own Speed-23		prepared by S. Seely and E. C.
	Knots; G. F. Duvall, June 29, 1945.		Pollard, Oct. 20, 1941.
	Dlv. 14-323.5-M6		Div. 14-121.1-M2
0.61		RL-T-3	Rectifier Filter Circuit Analysis, H.
L-S-61	Mechanical and Electrical Tests of		J. White, Feb. 17, 1942.
	the General Electric Company Scan-		Dlv. 14-212.1-M1
	ner for the AN/APS-10 System, G.	RL-T-4	Analysis of an Amplidyne Servo-
	E. Hewitt, July 14, 1945.		Mechanism, C. C. Lawry, Jr., Feb. 10,
	Div. 14-234,323-M4		1942. Div. 14-214.1-M1
L-S-62	The Manual Plotting System RC-305,	RIT-5	Transmission Lines and Woveguides,
	J. W. Brean, J. E. Ward, J. D.		Similarities and Differences, N. H.
	Horgan, Aug. 21, 1945.		Frank, June 4, 1942.
	Div. 14-265.3-M4		Div. 14-238.41-M2
L-S-63	Torpedo Director Mark 33 Mod 1, G.	RL-T-6	Explanation of Impedance Matching.
	Duvall, R. G. Page, Nov. 30, 1945,	***************************************	H. Krutter, July 7, 1942.
	Div. 14-323.5-M7		Div. 14-252.1-M3
L-S-64	Antenno Catalogue, J. J. Brady, Oct.	RL-T-7	Paraboloid Diffraction Patterns from
	8, 1945. Div. 14-234.5-M16	WL-1-1	
L-S-65	Supplementary Report on Aircraft		the Standpoint of Physical Optics, R.
	Target Rangus of AEW, S. D. Ben-		C. Spencer, Oct. 21, 1942.
	nett, Apr. 26, 1946.		Div. 14-234.22-M3
	Div. 14-321.14-M20	RL-T-8	Microwave Radar, Volume I, Theory
L-S-66	Type Test of the Foirehild Radar		and Practice of Pulsed Circuits, D.
2-52-60	Recording Camera, D. G. Bagley, R.		G. Fink, July 1942. Div. 14-212.4-M1
	C. Babish, Oct. 30, 1945.	RL-T-9	Wave Guide Handbook, Section I, Sept.
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L-S-67			Wave Guides, Oct. 2, 1942; Section
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L-S-68	Radar R-F Test Points, A. H. Brown,		1942; Div. 14-233.422-M5
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507297	Div. 14-322.1-M12	RL-T-10	Theory of Impedance and Admittance
L-S-70	X-Band Scaled Standard Cavitics, F.		Diagrams and Allied Subjects, S.
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L-S-72	No report.		Div. 14-252.1-M4
L-S-73	Rudar Components that Affect Range,	R1T-12	Rectifier Filter Circuit Analyses, Sup-
	L. Davis, Jr., Dec. 10, 1945.		plement to Report RI-T-3, 11. J.
	Div. 14-243-M4		White, Nov. 4, 1942. Div. 14-212.1-M2
L-S-74	Operation for Peak Performance, R.	RL-T-13	Microwave Technique as of May 1943,
	D. O'Neal, Dec. 20, 1945.		J. M. Peterson, Editor, and others.
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L-S-75	MK 151 Director, H. S. Sommers, Jr.,		Navy as NAVSH1PS 900,028,
7-54-113	Mar. 5, 1946. Div. 14-323.32-M8		Div. 14-280-M1
0 -0		RL-T-14	Use and Deviation of a Z, & Chort,
L-S-76	MEW Close Control, E. Miller, Apr.	K1/-1-14	J. Reed, May 18, 1943.
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	AFC Operation and Maintenance, J.	RL-T-15	Modulator Text, A. S. Jerrems, E. B.
L-S-17		15 L - 1 x 1 d)	recommends that A. S. scriems, K. D.
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Div. 14-253.1-M3

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Dec. 15, 1943. Div. 14-323.2-M1 Project Falcon, AN/APG-13, C. F. J. Overhage, RL-91,

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Arising from Detacing when the Transmitter Frequency is Pulled during the Rotation, L. J. Laslett, RL-94, March 1943. Div. 14-234.321-M3 Sammary of Work on Propeller Modulation at the

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1944. Div. 14-125-M8

## PART III

## SUBJECT INDEX OF DIVISION 14 AND RADIATION LABORATORY REPORTS

THIS INDEX carries only the identifying name Assessent Materials (Continued) I of the report and, in the case of NDRC reports, an indication of the laboratory or company issuing it. The date of Issuance is included to differentiate Progress Reports of the same title. Complete details of each report are given in Part I, Division 14 NDRC Reports, and in Part II, Radiation Laboratory Reports. which are designated as 14- and RL- respec-

## ABSORBENT MATERIALS, see also Dielectrics

Special Protective Contings, Progress Report, Jan. 14. 1944 Idn Ponti. 14-211 Special Protective Contings, Progress Report, Feb. 14, 1944 [du Pont], 14-241 Special Protective Coatings, Mouthly Report, Sept. 13, 1944 [du Pont]. 14-247 Mouthly Sammary and Informal Mouthly Progress Report on Protective Coatings, Mar. 14, 1944 | du 14-251 Pont l. Monthly Sammury and Informal Monthly Progress Report on Protective Cuatings, Apr. 14, 1944 | du Pontl. 14-264 Mouthly and Informal Monthly Progress Report on Special Protective Contings, May 13, 1944 | du Pont l. 14-273 Special Protective Conting, Peagress Report, June 13, 1944 |du Pont]. 14-286 Special Protective Contings, Progress Report, July 14-291 14, 1944 [du Pant]. Monthly Summury and Informal Progress Report, 14-306 Aug. 11, 1944 [du Pont]. Special Penteetive Coatings, Monthly Summary, Oct. 14-325 13, 1944 [du Pont]. The Preparation of Sambo Films for Scheme A [du Pont]. 14-343 Survey of Binder (Une A), Special Protestive Cont-14-344 ings-I |du Pont]. Special Protective Contings-II, Formulation Studies 14.345 -Composition Variables [du Pont]. Special Protective Contings-III, Formulation Studies-Physical Processing Variables [du Pont]. 14-346 Special Protective Contings-II', Pigment Evalua-14-347 tion Studies | du Pont |. Special Protective Coatings-V. Film Thickness

Evaluation [du Pont].

for Practical Work at MIT [du Pont]. Special Protective Coatings-VII, Kuife Casting on Semiworks Wheels [du Pont], 14-350 Special Pentective Contingn-VIII, Large Scale Conting Trials Investigation of Fabric Cuating Kanipment |du Pont|. 14-351 Special Protective Contings-IX, Spray Triots at Toledo | du Pont |. 14-352 Special Protective Contings-X, Development of Cement and Paint Making Procedures for Scheme A [du Pont]. 14-353 Special rotective Coatings-XI, Development of Machine-Spraying Process for Scheme A [du Pont |. 14-354 Special Protective Continus-XII, Characterization of Metal Flokes [du Pont]. 14-355 Special Protective Contings-XIII, Preparation of Film by Calendering |du Pont|. 14-356 Special Pratective Cuntings; Methods of Analysis for Aluminum Film and Its Ingredients [du Pont]. 14-357 Special Peatestive Contings, Monthly Summary, Nov. 14-358 14, 1944 [du Pont], Special Protective Coatings, Monthly Summary, Dec. 13, 1944 [du Pont]. Monthly Snamary, Special Protective Coatings, Jan. 12, 1945 [du Pont]. 14-389 Special Protective Coatings, Physical Performance Tests on Preferred Sawba System Under Simulated 14-395 Service Conditions [du Pont]. Special Protective Coatings, Mouthly Summary, Feb. 14, 1945 [du Pont]. 14-403 Special Protective Coatings, Monthly Summary, March 14, 1945 [du l'ont]. 14-422 Special Protective Contings, Progress Report, June 14, 1945 [du Pont]. 14-448 Special Protective Contings, Progress Report, Apr. 13, 1945 [du Pont]. 14-452 Special Protective Contings, Progress Report, July 12. 1945 [du Pont]. 14-464 Special Protective Contings -XI', Semiworks-Scale Preparation of Machine-Sprayed Film [du Pont]. 14-467 Special Protective Contingn-XIV, Formulation

Studies-Replocatory Work for New Uses [du

Special Protective Continus-XVII, Laboratory Study

of Adhesive Systems [du Pont].

Special Protective Contingn-VI, Cross-Knifed Films

14-348

Pontl.

14-469

Absorbent Materials (Continued)	AIRBORNE RAHAR (Continued)
Special Protective Coatings, Monthly Summary and	AIA Indicatorn. RL-311
Informal Progress Report, Aug. 13, 1945 [du Pont].	ARO Range Fallow-up Unit. RL-331
14-491	ARO Range Unit. RL-332
Special Protective Coatings, Mouthly Summary and	Report on Airceaft Radio Sight. RL-374
Informal Progress Report, Sept. 14, 1945 [du Pont].	Airborne Radar Projects in Division 9. RL-376
14-502	Pictorial Brief of an Experimental AGL-1 Installa-
Special Protective Coatings-XXV, Final Report	tion. RL-377
[du Pont]. 14-508	Weight Analysis of Airborne Radar Sets. RL-450
Special Protective Contings-XVI, Surface Adjust-	Madification of the Amplifier of the AN/APN-2 to
ment of "Une B" Film [du Pont]. 14-547	Give Sharp Cut-off Wide-Band Response, RL-613
Special Protective Contings-XVIII, Semiworks-Scale	A Low Drag Beacon Antennu for Fighter Air-
Preparation of Machine-Sprayed Filum [du Pont].	eraft. RL-685
14-548	Stable Scanners and Unsteady Airplanes. RL-701
Special Protective Contings—XIX, Practical Applica-	APQ-13 60-Inch Antenna, RL-751
tion Trials, "Use A" [du Pont]. 14-549	Airborne Early Warning-Scarch Antenna, RL-779
Special Protective Coatings—XX, Practical Applica-	K-Band Anteuna for High Altitude Bombing.
tion Triule, Laboratory Study of Adhesives for	RL-789
"Unca B and C" [du Pont]. 14-550	AN/APS-31/33 R-F Unit. RL-886
Special Protective Cootings—XXI, Formulation De-	Improved R-F System for the Transmitter-Re-
velopment Studies [du Pont]. 14-551	ceiver Unit of the APQ-13, RL-905
Special Protective Contings-XXII, Preparation of	SN-41/APA-53 (Cadillac II Synchronizer) and IN-
Films by Hot Pressing [du Pont]. 14-552	188/APA-53 (Cudillac II Indicator), RL-937
Special Protective Contings—XXIII, Semiworks-Scale	Range Follow-up Unit; Theory of Operation, Main-
Preparation of Machine-Sprayed Films [du Pout].	tenance Instruction, and Parts List. RL-M-125
14-553	AN/APS-15 Receiver - Indicator Modified for
Special Protective Coatings—XXIV, Process Develop-	Ground Rauge Sweeps and Remote Amplifier.
ment Work at Newburgh [du Pont]. 14-554	RL-M-172A
AIRBORNE RAHAR, nee also Beaconn, Fire Control, Guided	Electronic Cursor for AN/APS-15, RL-M-175
Missiles, Landing, Navigation, and Night Fighting	Replacement Pressurized RF Unit for AN/APS-
Components	15A. RL-M-216
Final Report of Renearch and Development Con-	Handbooks and Mounds
ducted on Light Houne Tube Trummitter-	Handbook of Maintenance Instructions for AN/
Receiver Units [Phileo]. 14-190	APA-53 Indicator Assembly, RL-M-243
Light weight X-Band Radar, Progress Report No. 1,	Manual for Operation and Maiateaunce of TW
July 1, 1943 [BCA]. 14-195	Audio Indicutar. RL-M-134
AIA-1 Seanner Development Program Completion	Radio Set RHB, Section I-Technical Description
Report   Daimo Victor  . 14-199	of the Production Model Rudio Set RHB. Sec-
The AGL Receiver [GE]. 14-275	tion II-Adjuntment and Alignment of Radio
Design and Tent of Project Kagle Airfoil	Set RHR. RL-508-1
[Douglas]. 14-290	Radio Set RHB, Section III-Glider Checkont Pro-
Final Report an Tuben for Lightweight X-Band	cedure, R1,-508-2
Radar ond Ultra-Portable X-Band Beacon	Radia Set RHB, Section IV-RHB Test Equip-
[RCA]. 14-415	ment. RL-508-3
Final Report on H2K Roll Stabilized Seauner	Instruction Manual for B-18 Radar Installation.
[Maguire Industries]. 14-429	RL-M-100
Handbook of Maintenance Instructions of Aircraft	Handbook for Rudar Equipment 596, RL-M-113
Radar Equipment for Army-Navy Model RT-63/	ARO System, General Description and Operational
APS British Model 110 DB/206 (K Baud RF	Procedure. RL-M-125
Head) (Sylvania). 14-495	AN/APS-15 Schematics, RL-M-135
Development and Production of 50 K Band RF	AN/APS-15 Schematics, RL-M-135B
Heads, Army-Nacy Madel RT-63/APS, British	Handbook of Instructions for Rudio Set AN/APS-
Madel 110 DB/204 [Sylvania] 14-496	15 $(H_iX)$ . RL-M-135C
2CH1A1 (AGL-1) Aircraft Fire Control Computer	Manual for Fighter Tail-Warning Equipments.
[GE]. 14-576	RL-M-138
Indicator Components us fixed in a Complete Air-	Houdbook of Instructions for AN/APA-9 (Aspen)
eraft Interception Installation, RL-138	Radar Set. RL-M-148A
Tune-up Procedure for 3-Cac RF System. RL-160	Handbook of Instructions for AN/APA-9 (Aspeu)
87-4-15	/ · · · · · · · · · · · · · · · · · · ·
Matching, Lowes, and Frequency Semittivity of a 3-Cus RF Syntem. RL-161	Radar Set. (Second Abbreviated Edition).

	s and Munuals (Continued)	Handbooks and Manuals (Continued)
Hand	book of Instructions for Rudia Set AN/APA-	Preflight Check of Radio Set AN/APQ-7.
9 (.	Preproduction Sets) (Complete Edition).	RL-S-54
	RL-M-148C	Operational Procedure for AN/APA-5, RL-S-67
Falco	System Munnal. RL-M-152A	PERFORMANCE
AN/A	PG-13 Fulcon System Manual. RIM-152B	Muintenance Experience with ASV Equipment,
	PG-13 System Manual. RL-M-152C	RL-34
Instra	ection Munual fur Antomotic H2X Camera	Regular Report on the X-JO-3, Oct. I, 1941.
	lel A. RL-M-163	RL-53
Temp	orary Instruction Manual for Automatic	Regular Report on the X-JO-3, Nov. 5, 1941.
	lur Cumera Model B. RL-M-164A	RL-54
Temp	orary Instruction Manual for Autumatic	Regular Report on Navy Dirigible K-3, Nov. 5,
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Mieint	enunce Manual G for the AN/APN-7 System	Regulor Report on the Maintenance Group, Oct.
	lified for the SG Band. RL-M-170	22, 1941, RL-60
	minary Instruction Manual for AN/APG-15.	Regular Report on the Muintenance Group, Nov.
	RL-M-178	26, 1941 RL-61
Prelic	ninary Iustructiun Munual far AN/APG-15.	Rudar Target Contrast. RL-375
	RL-M-178B	Photographs of the FII Indicator Tube with 3-Cm
Comp	uter Mark 14 AN/APA-30 XN-1 Instruction	ASV Over Water and Land. RL-381
	nual. RL-M-179	Photographic Polarization Tests, RL-382
	ninary Technical Manual for AEW.	Operational Report on B-24, Nu. 1, in the British
	RL-M-180A	Islen, March-June, 1942. RL-391
Deser	iption of the Experimental ROSERUD.	Altitude Return in the AN/APS-6, RL-706
	RL-M-184	Flight Behavior of the Flux Gate and Gyronyn
Hamil	haok af Mointennnee Instructions for AN	Companies and Their Effects on GPI. RL-712
	A-40 (Micro-II Mark II) Airhorne Attuch-	Flight Tests of Black I Relay Rudur System.
	it to AN/APS-15. RL-M-197	RL-727
	ninary Instruction Munnul for X-Rand Coin-	Echoen from Trapical Rule on X-Hond Airborne
	ut Heacon XCB (Mark I) AN/APX-14.	Radur. RL-728
	RL-M-199	An Aerial Investigation of K-Band Rodar Perform-
Prelie	ninary Maintenance and Operating Instruc-	nuce under Trapieul Atmospheric Conditions.
	s for AN/APX-15. RL-M-200	RI_729
	y of Operation of AKW Circuits, RL-M-201	Flight Tents of AKW Block III Relay Link. RL-739
	ninary Instruction Munual for S-Itand cain-	The AN/APS-32, RL-763-2
	nt Transponder Bluck Maria KT-74/APX.	The AN/APS-33. RL-763-3
-	RL-M-211	The AN/APS-34. RL-763-4
Maint	enance Manual for Model AN/APN-21XR	Runge Accuracy of AN/APG-5 ARO. RL-820
Rue		A Final Report on AN/APS-10. RL-874
	houk of Muintenance Instructions for the	Runge and Tracking Accuracy of AN/APG-15H.
	APG-8 Airborne Radur Gunnighting Equip-	RL-875
201414		Interference Meanurements on the AN/APS-30
	simiry Instruction Manual for AN/APG-15R.	Series. RL-998
	RL-M-215	Buresighting the AN/APG-15 Antenna Assembly.
Prefli	ght Check of Radio Set AN/APQ-7.	RL-1009
,	RL-M-219	Bencon Tests with AN/APS-6. RL-S-16
Alian	ment Procedure for Cudillac Airborne Syn-	Flight Tents on AN/APS-6A. RL-S-25
	System. RL-M-226	AKW Bedfacd Trials. RL-S-32
	ninary Hundhook of Operating and Main-	Preliminary Report an Single Aircraft Target
	ince Instructions for Model AN/APA-46	Ranges of AEW. RL-S-37
	eruft Rudur Equipment. RL-M-227	Waveforms, Voltage and Resistance Measurements
	ninury Operation and Maintenance Handbook	in AN/APA-5 Indicator Equipment. RL-S-38
	Release Point Indicator AN/ARA-17.	H2K Rudur Diaplays. RL-8-44
101	RL-M-241	AKW Tactical Tests at Brigantine. RL-S-50
Hard	back of Muintenance Instructions for the	PPI Photographs from AhW. RL-S-51
	/APA-53 Indicator Assembly. RL-M-243	AN/APS-15A and AN/APS-15B Tests. RL-S-57
	houk of Maintenance Instructions for Cudilluc	Mechanical and Electrical Tests of the General
	Power Supply, RL-M-215	Electric Company Scanner for the AN/APS-10
	ninury Instructions for Rudar Set AN/APG-	System. RL-S-61
137		Supplementary Report an Aircraft Turget Ranges
1911		of AKII'. RL-S-65
Nonn	eu ale. RL-M-247	of ARH.

	Systems and Attachments (Continued)
Systems and Attachments  Description Technical Systems Fighter Tail-	Black Muria. Coincident Cross-Bund Transponder
Descriptive Trehnical Specification-Fighter Toil- Worning Equipment, AN/APS-13 (XA1) [ECA].	for S-Bund Rudar (AEW). RL-072
14-185	Sea-Return Effects und Their Elimination in the
Development of a Tuil-Warning Ruder System,	AN/APS-6, RL-707
TWL-2 (AN/APS-13) [RCA]. 14-236	The AN/APS-30 Series. RL-763-0
The Spercy Stubilized Aircroft Gunlaging System,	The AN/APS-31 System. RL-763-1
AGL-2, Intermediate Phase [Sperry]. 14-289	The AN/APS-32. RL-763-2
U. S. Rudar Survey, Section I, Airborne Rador	The AN/APS-33, RL-763-3
[NDRC]. 14-331	The AN/AFS-34. RL-763-4
Final Trobalcal Report on AGL-1 Development	AN/APS-10, n Lightweight X-Bund Search Set.
[GK], 14-385	RL-768
Final Report on the Fnirehild Central Station	AN/APG-21. RL-794
Computer (Part 1), the Fairchild 50 Caliber	The AEW System, Book I, Airborne Equipment.
M2 Computer and AGS Adaptations for an	RL-806-1
Emerson Toil Turret (Part II) [Fairchild].	The AEW System, Raok II, Shipboard Equipment.
14-433	RL-800-2
Advanced Dusign for Radar Photography [Fair-	The AEW System, Book III, Test Equipment.
child]. 14-503	RL-806-3
U. S. Radar Survey, Section 8, Airhorne Rudar,	Design Considerations for an Improved Intercep-
Change 1 [NDRC]. 14-568	tion (A1) Radar; The AN/APS-21 System.
Development and Production Samples of APG	RL-868
(AN/APG-5 und AN/APG-8) Series Rador	The AN/APS-23 Antennu and Installation, RL-878
Equipment, including Monumeript Handbook of	AN/APG-5 (ARO) as a Terrain Clearance Indi-
Maintenance Instructions for Radio Sets AN/	entor. RL-908
APG-5 und AN/APG-5A [Galvin]. 14-569	Firefly Moving Vehicle Detector AN/APS-27.
Final Report of Contract OEMar-1844, May 27,	RL-994
1943 to October 31, 1945; Part 2, Triungle	Butterfly Maving Vehicle Detector AN/APS-26.
Solenr for Engle Project; Part 3, Triungle	RL-1021
Solvern for 112X Bombing Project; Part 4,	AN/APS-15 Schematics. RL-M-135
Triangle Solver for Laboratory Use; Part 5,	AN/APS-15 Schemutics. RI_M-135B
Redesign of Triangle Solvee for Kayle Project	Manual for Fighter Tail-Worning Equipment.
[Librascope]. 14-587	RL-M-138 Preliminary Handbook of Operating and Mainte-
B-18-A Report, February 13 to July 22, 1941. RL-1 Report on XP-61 Mock-up. RL-2	nence Instructions for Model AN/APA-46 Air-
Report on XP-61 Mock-up, RL-2 Advance Drivlopment of 3.3-Cm Syntem, RL-24	eraft Radur Equipment. RL-M-227
3-Cm System Group Report, July 5, 1941. RL-25	Nouneagle, RL-M-247
Airbarne 3-Cm Radur Equipment for AI and ASV	General Description, Special Installation Require-
Applications, RL-27	ments, and Mounting Dimensions of AN/APG-5
Correlation of ASV Equipment with the Bomb-	(ARO), Airborne Ronge Only Equipment.
sight. RL-35	RL-S-6
Navy Roof, etc. RL-39	AN/APS-10 Airborne Rador, RL-S-22
Roof System Reports, August 26 to September 21,	AEW, Airborne Enrly Warning Equipment.
1941, RL-40	RL-S-26
Regular Report on the X-JO-3, Oct. 1, 1941. RL-53	AEW, Airhorne Early Warning Equipment (RL-
Regular Report on the X-JO-8, Nov. 5, 1941. RL-54	S-20 plus additional material). RL-S-27
Regular Report on the Navy Dirigible K-3, RL-55	Interconnecting AN/APA-5 and Army Rudac Sets.
Regular Report on the B-24. RL-62	RL-S-30
10-Cm ASV Equipment on LB 30 Airphraes, RI-63	Termination Report on Rudar Photo Reconnais-
Regular Report on the PRM-1. RL-64	sonee Project. RL-S-34
Regular Report on the CXBH-1 (The PBM-1).	AMPLIDYNES see Remote Indication and Control Systems
S-Band AS' Marker. RL-298	Amplifiers
Survey of 10-Cm Endar Installation in PHM-1 Flying Boot. RL-383	Service Munuol for Video Amplifier [U. of Pa.].
RL-383 Report on the Rudar System Installed on a "K"	14-97
Type Airship. RL-392	Development of a Tunnble IF Amplifier [Sylvania].
Final Report on SRR RL-463	Noise Peduction by Delayed Fand Buck (DCA)
Weight Analysis of Airboene Rudne Sets. RL-450	Noise Reduction by Delayed Feed-Back [RCA],
Rosebud Mierowave Beacon Equipment. RI-460	14-146 Analysis of 6SA7 Gated Amplifier [Cornell]. 14-158
Vixeu X. RL-607	Final Report on Development of (1) High-Fre-
2027(10)	serport on Determinent of (1) High-Fre-
CONFIDE	ENTLAT

MPLIFIERS (Continued)	Antennas (Continued)
quency Video Amplifier and (2) Radar Rung	ing Theory of Radiation from Parabolaidal Reflectors.
System [U. of Pa.].	571 RL-114
Development and Use of the "Micrahaud" Lock	
	189 A Method for Measuring the Absolute Gain of Micro-
Receivers. RL-	
Receivers. R1.	
Visit to the Bell Telephone Laboratories, RL- Special Report on Receivers, RL-	
	and the second s
Report of the Radio Frequency Section. RI Fine Grid Technique. RL.	
The Radiation Laboratory S-Band Amplifier (1	
liminary Report). RI:	
A 70-Me Wide IF Amplifier. RL.	
Externally Triggered Circular-Sweep Amplifiers,	3-Cm Bolumeter Detector Suitable for Field Measure-
RL	
A Cathode Follower Employing Two Tabes to Oh	
Extremely Low Output Resistance. R1.	
Stagger-Taned I-F Amplifiers. RI.	
The Effect on Noise Figure of Placing the Guin C	Con- lindinary Report. RL-265
trol on the First I-F Stage. RL-	528 An Automatic Recorder for Microwave Antenna Pat-
A Hard Tube Servoamplifier fur Fractional Ho	rae- tern Measurements. RL-266
power DC Motors. RL	
Stogger-Damped Double-Tuned Circuits. RL	539 Gratiups and Sereens as Microwave Reflectors.
Antenno Measuring Equipment: 100-Db Linear A	
Amplifier. RL-60	
Madification of the Amplifier of the AN/APN-	
Give Sharn Cut-off Wide-Band Response. RL	
The Use of a Twin-T Network in a Selective I	
quency Amplifier, with Special Applications.	Synthesis of Microwave Diffraction Potterns with Application to Cuc's Patterns. RL-272
RL	
Grounded Grid I-F Amplifiers, RL-1	Tit own
Intermediate Frequency Amplifier Overtoad Cl acteristics. RL-1	The state of the s
Memorandum Describing High Gain DC Ampli	
RL-M	Dr. nee
Instructions for Operation of High Gain Video An	F . 1 4
fier for P4-E Synchroneape, RL-M-	
AN/APS-15 Receiver-Indicator Modified for Gro	to I am a distance at the selection of distance
Range Sweeps and Remote Amplifier. RL-M-1	72A RL-196
	Autenna far High-Allitude Bombing (H2X). RL-411
Antennas see alsa Radomes, Scanning	Report on the Microwave Autenua Conference, July
Design of Egg Beater Scanning Antenna for	the 19-24, 1943, RL-414
Eagle Radar Bumbright and Construction of	f a LEASY (AN/APA-2) Automa. RL-415
Model, Final Report [1nt, Projector Corp.]. 14	412 Half Reacon Auteuma, RL-419
BUFX Antenna, Type A [RCA]. 14	396 Contribution of the Dish to the Impedance of an RL-442
Rouf Systems Reports, Aug. 26-Sept. 21, 1941.	Probe-Frd Slatz as Radiation Elements in Linear
RI	Arrays. RL-455
Regular Report on Spinaers and Radiators. R.	-56 Auteuna Partn and Measuring Equipment. RL-472
	Paraholoid Antenna Characteristics as a Function of
	e-91 Feed Till. RL-479
	-92 A Simulified Seweck Autenna for Rudio Set AN/
, , , , , , , , , , , , , , , , , , , ,	=93 MPN-L RL-486
	294 X-Band Harizontally Palacized Nondirectional An-
	e-95 tennas. RL-489
, , , , , , , , , , , , , , , , , , , ,	-96 V-Beam G.C. Radar. RL-567
	-97 Adjustment of Lovan Antenna and Antenna Cou-
The state of the s	18 pling Units at Frequencies Between 1,700 and
A Study of Fauned Beam Radiators. Ri	2-99 2,000 Kilocycles. RL-511

Antennas (Continued)	Antennas (Continued)
Impedance Characteristics and Equivalent Circuits	K-Band Linear Array. RL-771
for Vertical Radiators, RL-512	Statted Dipote Impedance Theory. RL-772
S-Bund Horizontally Polarized Nondirectional An-	Double Reflector Antenna for High-Altitude Romb
trnnes, RL-517	ing. RL-771
Aspen Airborne Antenna. RL-519	Airborne Eurly Warning Search Antenna. RL-773
Rotating Corrayated Eccentric Line Antennas.	Mechanical Resonant Scanner. RL-782
RL-531	K-Bund Antenna for High-Altitude Bombing, RL-789
Leaky Waveguide Rapid Scanner. RL-557	Present Status of High Power at S-Band. BL-79:
S-Band End-Fire Array Antenna. RL-577	Shipboard Blank Maria Antennas. RL-796
Autenna Measuring Equipment. RL-601-1	AN/APS-32 and AN/APS-34 Airborne Nuvigationa
Antenna Measuring Equipment, High Power CW	Radar Antennas at K-Band, RL-809
Transmitter for S-Band, RL-601-2	Analysis and Correction of the Impedance Mismatel
Antenna Measuring Equipment, 100-Db Linear Andio Amulifier. RL-601-3	Due to a Reflector. RL-810
17 THE RESERVE TO 18 THE RESER	Hawkeye Antenna. RL-81; S , 6-6 Horizontally Polarized Antenna. RL-82;
Antenna Mrasuring Equipment, Antoniatic Antenna Puttern Recorder. RL-601-4	
Low-Altitude Navigation Antennas Developed in Con-	Die-Cast Model of the CSB Antenna. RL-824 Buzz-Bomb Antenna. RL-825
neetion with AN/APS-10, RL-615	Variable Width Waveguide Scanners for Eagle (AN)
S-Band Vertically Polarized Nondirectional An-	APQ-7) and GCA (AN/MPN-1), RL-840
tennas, RL-623	IFF Antenna for Mounting on the Wing of a TBM
K-Band Cosec Antennas with a Line Source and	Torprdo Romber, RL-841
Shaped Cylindrical Reflector. RL-624	IFF Receiving Antenna for Monnting in Cadillac
Field Station for Antenna Measurements. RL-632	Dish. RL-843
Vertical Coverage of a 1%-Ft by 5-Ft Antenna De-	IFF Transmitting Antenna for Mounting in Cadillas
signed for SG-3 (Experimental Data Obtained	Dish. RL-844
with an SNR Aircraft as Target). RL-636	Six-Element Vertirally Polarized Beacon Antennas
SG-1 Anteuna Mark 2, RL-639	RL-846
Parallel Plate Optics for Electrical Scanning, RL-646	The AN/APQ-13 (60") Seanner in B-29 Airplanes.
Electrical Design of the AN/TPS-10 Antenna.	RL-848
RL-648	Cindy Antenna, A High Resolution K-Band Radar
Shaping the Primury Pattern of a Horn Feed.	Antenna for Sea Search, RL-849
R1,-655	Broad Band Bi-Conical Vertically Polarized Dipole.
Chorneteristics of Hovn Feeds on Rectangular Wave-	RL-851
guide, RL-656	Double Skin-Back Antenna. RL-852
SU-2 Antenna, Shipharne Stabilized Radar Antenna	APS-33 Antenna, Final Pre-Production Data. RL-861
for Sea Seurch. RL-659	A Nric Pillbox Feed, RL-862
SU-2 Antenna, Line-of-Sight Stabilization of a Radar	Horn with Metal Leus. RL-863
Beam by Reflector Tilt, RL-660	Airborne Blurk Maria Autenna, RL-866
Reflections from Smooth Curred Surfaces. RL-661	Lens Fred for K-Band Pillboxes. RL-869
Stubilized SG-3 Antenna. RL-665	Streamlined Microwave Omni-Directional Antennas.
Information on Radiation Laboratory Puruboloid Re-	RL-871
flertors. RL-679	The AN/APS-23 Antenna and Installation. RL-878
A Low-Drag Beacon Antenna for Fighter Aircraft.	A Funr Horn Feed to Give Cue! Antenna Patterna.
RL-685	RL-896
Primury Feeds in Cylindrical Purntulas. R1.:686 The SCI Rapid Scan Height-Finding Antrana.	An IFF Mark 5/UNB Fixed in the SCI Search Au-
RL-688	tenna. RL-897
Horn Feeds for Parabolic Antranas. RL-690	AN IFF Mark 5/UNB Fred in the AN/CPS-6 Verti-
Double-Curvature Surfaces for Beam Shaping with	cal Antenna, RL-898
Point-Source Feeds. RL-691	AN IFF Mark 5/UNB Rodintor in the AEW An-
Double Coosial Coupler for BUPX Antenna. RL-736	tenna. RL-899
Calendation of Vertical Polar Diagrams and Power	A Broad Band TEM Pillbox, RL-901
Gains of Antennas for Airborne Novigational	A Flat Plate Beam-Shaping Antenna. RL-903
Radars. RL-750	AN/CPS-6 (V-Bram) Antenna. RL-951
APQ-13 60-Inch Antenna. RL-751	Compart Horns Intermediate Between Polyrods and
Parallel Plate Bends, RL-760	Reflectors. RL-961
Fourier Integral Methods of Analysis. RL-762-1	Measurement of Phase in Microwave Antenna Fields
Quarter Wave Plate for Broud-Bond Circular Polar-	by Phase Modulation Method. RL-966
ization. RL-769	Dielertric Rod Endfire Antennas Close to Metal Sur-
	fures, RL-969
Broad-Band Conzint-Line Horn. RL-770	

Antennas (Continued)	Beacons (Continued)
Linear Array for Use in the AN/APS-23 Antenna, RL-973	Final Report on Ultra-Portable Racon (BUPX) [RCA], 14-407
Two Circularly Pularized S-Band Horas. RL-980	Final Report on Tuben for Lightweight X-Band
An X-Band Hemi-Instropic Radiator, RL-981	Radae and Ultra-Fortable X-Band Beacan [RCA].
Ounidirectional Antennan for BUPX, RL-996	
Dipole Arrays Backed by Reflecting Sheets, RL-1014	Denotorought Work on AV/DDM a Dodg Set 10-1
SCI Search Autenna Mark I. RL-1025	Development Work on AN/PPN-2 Rodio Set [GB]- vin]. 14.434
SCI Search Antenna Mark II. RL-1026	AND WIND
The Beovertail (AN/CPS-4) Antenna, RI-1027	Recent Discrimination Circuit, RL-29
SG-1 Mack III Antenna. RL-1044	Performance Charneteriaties of the Magnetron Under
	Canditions Simulating Bencon Operation, Tube
	Types 2J38 and 2J22, RL-227
	Hurizontally Polarized 9.1-Cm Biconical Horn Bea-
	em Antenna, RL-263
Metal Plate Lenn for Csc* Antenna, RL-1070 Low Altitude Csc** Antenna for APS-33 Project.	A Racon Prospectus with a Pictorial Brief of BGS.
	RL-357
Survey of Poster Seanner Developments. RL-1073	PGS 10-Cm Rudar Beacau, RL-358
Survey of Foster Seanner Developments. RI-1074  The Alteration in the Radiated Field of a Parakolaid	Holf Reneva Anteana, RL-419
	Eusebud Micrawove Beneun Equipment. RL-460
Due to a Shift in the Pasition of the Dipole Feed. RL-1078	Prayagation over Short Paths and Rough Terrnin at 200 Me/s, RL-468
Admittance Characteristics of Some S-Band Wave-	Occrimterrogation Cantrol of Microwave Beacons.
guide Fed Dipoles, RL-1082	RL-477
Preliminary Technical Monnat for SCR-584 MTI	N. Band Harizontally Polacized Non-directional An-
Modification Kit No. MC-642-AS and Fau-Beam	tennaa, RL-489
Search Antonna, RL-M-218	Results of Tests on Use of Rebecca-Kurcka by the
Peelinmary Testing of the Housten Curporation AN/	Army Ground Forces, RL-500
APS-10 Seanuer. RL-S-33	Palne-Length Discrimination in Bearons. RL-510
Proposed Antenna for Panoramic Radae, RL-S-55	S-Band Hocizontally Polarized Nondirectional An-
Talden of Fourier Transforms of Fourier Series.	tennon, RL-517
Power Series, and Polynancials. RL-S-58	Tests of Beacon Receiver on V-Beam. RL-522
Antenna Catolague, RL-8-64	An Airborne S-Band Rucon for Rooster Operation,
Pocuboloid Diffraction Patterns from the Stuadpoint	RL-554
of Physical Option, RI-T-7	Uttra-Pactable Micrawace Rudar Beacons as Beaca
General Lecture Series on Rudae Components.	Approach Aids in Aircraft Landing RL-581
RL-T-18	BUPS (AN/UPN-1, 2) on Ultra-Portable S-Band
Flight Test of an Experimental Harn-Fed Antenna	Radae Reacon and Its Tactical Uses. RL-583
for H2X. [Div. 14-234,2I-M8.]	Siting and Range of Microwave Bencons. RL-590
Anti-Jamming, see Countermeasures	Results of Field Tests on AN/UPN-1, 2 (Experi-
ATR SWITCHES, see TR and ATR Switches	mental Madels of BUPS) at Boca Raton, Florida
ATTENUATORS, see Test Equipment and Transmission	(January-March 1944]. RL-591
Line Components	Florida Tests on ROSEBUPS against SCR-581, SCR-
AUTOMATIC FREQUENCY CONTROL	615, MEW, RL-596
An Automatic Frequency Control and Frequency	Statistics of Beacon Intercugation. RL-602
Sciention System for Magaetrons, RI-541	Video Stretching as a Method for Laproving X-Band
Some Autamatic Frequency Cantral Circuits, RL-687	Beacan Reception. RL-604
Automatic Frequency Cuntrol for AN/APS-11/34.	Compacison of Theacetical and Experimental Re-
RL-887	quirements fur Microwace Beacon Transmitter
Automatic Frequency Control of Thermally-Tuned,	Power and Receiver Sensitivity. RL-627
Beacan Lacal Oscillator, RL-955	A Low-Drag Beneou Autenna for Fighter Aircraft.
Video Discriminatar Automatic Frequency Cantral.	RL-685
RL-957	BUPX (AN/UPN-3-4, AN/APN-11) Ultra-Portable
A Method for Antomatic Frequency Control of	X-Band Radar Beacons and Their Tactical Unes.
Thermolly-Taned Oscillaturs. RL-959	RL-710
An Automatic Frequency Control System for Mayac-	Front-Line Denaceation and Bowking with the Aid
trone with Beacon Applications. RL-1020	of Light-Weight X- Band Beacons (BUPX), A Log
AFC Operation and Maintenance, RL-S-77	of Tactical Tests, October 1944-February 1945.
Ballistics, see Rombing and Rallistics	RL-713
	Miero-H. RI-714
BEACONS  EUPX Antenna Tone A IRCAL 14-396	Double Coaxial Coupler for BUPN Antenna, RL-736
RUPX Antenna Torse A IRCAL 14-396	

BEACONS (Cantinued)	Bonning and Ballistics (Continued)
Interference Between SCR-584's Trucking APN-19	Nomograms for Radar Bumbing with the 100-Lh
Bearons, R1,-816	Practice Bamb M38A2. RL-614
Final Report on BUPX. RL-1054	BUPX (AN/UPN-3-4, AN/APN-11) Ultra-Portable
Preliminary Handbook for Experimental Prototype	X-Band Radar Beacons and Their Tactical Uses,
Model Radio Set SCR-620, March 1943, Supple-	RL-710
ment (dated July 1, 1943). RL-M-121	Frant-Line Demorentian and Bombing with the Aid
Handbook for Model CXEH (BGX) Radar Bencon.	of Light-Weight X-Band Beacons (BUPX), A
RL-M-129	Log of Tuetical Tests, October 1944-February
Preliminary Maunal for Rodor Beacon Type BPS	1945. RL-713
(Prototype of AN/CPN-8) Similar in Function	Miero-II. R1714
and Components to SCR-520. RL-M-130	The AN/APS-20 Series, RL-763-0
Handlook of Instructions for AN/APA-9 (Aspen)	The AN/APS-30 Series. RL-763-1
Rudar Set. RI-M-148A	Double Reflector Antenna for High-Altitude Bumb-
Hundhook of Instructions for AN/APA-9 (Aspen)	ing, RL-775
Radar Set, (Second Abbreviated Edition).	GPI for Close-Control Bombing. RL-783
RI:-M-148B	K-Band Antenna for Bigh-Altitudo Bombing
Handbook of Instructions for Radio Set AN/APA-9	AN/APQ-34, RL-789
(Preproduction Sets), (Complete Edition).	A Photographic Method for Assessment of Bouding
RL-M-148C	Results, RL-939
Preliminary Handbook for Experimental Prototype	Haadhaak uf Lastructions for AN/APA-9 (Aspen)
Model Radio Set SCR-620 (Same as RL-M-121),	Rodar Set. RL-M-148A
March 1943, Supplement, July 1, 1943, RL-M-161	Hundlack of Instructions for AN/APA-9 (.1spen)
Rador Beneuu-Mark I Mod 1. RL-M-167	Radur Set, (Second Abbreviated Edition).
Maintenauce Monaul far the AN/Al'Q-7 System	RL-M-148B
Mulified for the S <sub>0</sub> Band. RL-M-170	Handbook of Instructions for Rudio Set AN/APA-9
Description of the Experimental Rosebud, RL-M-184	(Preproduction Sets), (Complete Edition),
Preliminary Instruction Book for Shore Bombard-	RL-M-148C
ment Beacon Navy Model Mark 2 Mod 0 and Mod	Modification of SCR-584 for Oboe II. RL-M-151
I. RL-M-185	Instruction Manual for Antomatic H2X Camera
Handbook of Maintenance Instructions for AN/APA-	Model A. RL-M-163
40 (Micro-H Mark II) Airborne Attachment to	Tempurary Instruction Manual for Automatic Radar
AN/APS-15. RL-M-197 Preliminary Instruction Manual for X-Bond Coin-	Camera Madel B. RL-M-164A
eident Beacon XCB (Mark I), AN/APX-14.	Temporary Instruction Manual for Automatic H2X
RL-M-199	Cumera Model B, R1:-M-164B
Maintenance Manual for Model AN/APN-21XR	Nummengle, RL-M-247
Bacon, RL-M-213	Ground Position Indicator for Rudur Novigotion and
Target Baft Tronsponder. RL-S-2	Hombing. RL-S-19 Interconnecting AN/APA-5 and Army Radar Sets.
Beacon Tents with AN/APS-6, RL-S-16	RL-S-30
	Release Point Indicator Used in Conjunction with
BOMBING AND BALLISTICS	RC-294. RL-S-47
Final Report for Contract OEMsr-1044, May 27, 1943	Rudar Bambing Techniques, RL-8-59
to Oct. 31, 1945; Pact 2, Triangle Solver far Engle	Tobles for Une with Turpedo Director Mark 33-1.
Project; Part 3, Triungle Salver for HEX Bumbing	RL-S-60
Project; Part 4, Triangle Solver for Loboratory	The Manual Plutting System RC-305. RL-8-62
Use; Part 5, Redesign of Triangle Salver for Eagle	BROAD-BANDING, see reports on Components under
Project [Librascope]. 14-507	Transmission Lines, TR, etc.
Currelation of ASV Equipment with the Bombsight,	CABLES AND CONNECTORS, see Transmission Lines
RL-35	The state of the s
Calibrator for Low Altitude Bombing Equipment.	Calibrators, see Test Equipment, Rauge
RL-336	CAMGUFLAGE, see Absorbent Materials, Countermeasures
H2X Rouge Unit for Navigation and Bombing.	CATHOLE-RAY TUBES, see also Indicators
RL-342	Report of Work on Duplex Screen Tubes During
Modified Homing Canrae, RL-369	1841, OSRD 841 [GE]. 14-96
Antenna for High-Altitude Bombing (H2X), RL-411	Summery of Research on Radar Indicator Screens,
Bombing Errurs, RL-530	OSRD 891 [RCA]. 14-103
An II + B Impact Predicting Computer Assuming	Wark on Slow Phosphars for Rodar Indicator
Constant Indicated Airspeed for Use with AN/ APS-15A Radar, RL-584	Sereeun, OSRD 890 [GE]. 14-104
APS-ISA Radar. RL-584 The SCR-584 Plotting Table System, RL-595	Theory of Dack-Trace Takes, I [Carnegie 1nst, of
KL-990	Tech.   . 14-131
COMPUS	L NOTE A T
CONFID	BULLAL

CATHODE RAY TUBES (Continued)	Community of the Commun
Abridged Report on Circuits for Improving Focus on	CATHODE RAY Times (Continued)  Method of Measurement and Some Performance
Electrostatic Cathode-Ray Tukes under Conditions	Characteristics of P14 Screens, with a Note on
of Intensity and Deflection Modulation [Brown], 14-132	Manufacturer's Specifications for Tubes Contain-
Report of Progress of Work on Dark-Trace Tubes	ing F14 Screens [RCA]. 14-586 Stadies of British Phosphors of the Type C, H, K,
[GE]. 14-147	and M. RL-405
The Theory of Dark-Trace Tubes, II [Carnegio 1nst.	Potentiometer Type RL-B for Azimuth and Eleva-
of Tuch.]. 14-172  Darkening and Bleaching of KCL [Carnegie 1nst, of	tion Indication on Magnetically Deflected Cathode-
Tech.[. 14-177	Ray Tubes. RL-409 Stabilized High Voltage Supply. RL-565
Two Notes on the Potentials Developed in Cathode-	Stabilized High Voltage Supply, RL-565 Performance Characteristics of Army-Navy Pre-
Ruy Screens Daring Bombardment   Carnegie Inst.	feered Type Electrostatic Cathode-Ray Tubes.
of Tech.]. 14-178	RL-588
Memorondo on the May 1943 Meeting on Dark Troce	Deflection Yoke Design Information. RL-674
Tukes of Radiation Laboratory [Carnegie Inst. of Tech.]. 14-183	High Speed Phutography of Cathode Ray Tube.
A Memorandum on the Scuttering of Light by DT	A/R Rauge Scope, RL-755
Screens [Carnegie Inst. of Tech.]. 14-198	Nates on Photometry, Colorimetry, and an Explana-
Darkening and Blenching of KCL, II, The Effect of	lion of the Centiled Snale. RL-804
Temperature [Carnegio Inst. of Tech.], 14-205	Instruction Manual for Projection PPI. RL-M-137
Memorandam Unon the Behaviour of DT Sercons Containing Magnesiam [Carnegie Inst. of Tech.].	Testing of Skintrons, RL-S-1
14-214	Testiny of Skiatrons (Supplement). RL-S-1s Comparison of P7 Screen Test Methods. RL-S-9
Dark Trace Radar Indicator Servens, Frogress Rr-	Focus Cail Control for Cathode-Ray Tubes. RL-S-17
port No. 2, Feb. 18, 1944 [RCA]. 14-249	Tabulation of CRT Serven Properties, RL-S-48
Experiments with Double Layer DT Screens [Car-	Ecaluatian of Specifications for P14 CRT Screens.
negie Inst. of Tech.]. 14-253  The Theory of Dark-Trare Tubes, III [Carnegie Inst.	RL-S-71
of Tech.  . 14-257	General Lecture Series on Radar Components. RL-T-18
The Depth of the Darkened Region and the Build-Up	
of Durkening and Persistent Trace in KCI Screens	CATHORES
[Carnegie Inst. of Tech.]. 14-258	Magnetran Cathode Studies, Progress Report, May 1,
Theory of Dark-Trace Tabes, IV [Carnegie 1nst. of	1943 [Bartol]. 14-I48
Theory of Dark-Trace Tabes, IV [Carnegie 1nst. of Tech.]. 14-265	1943 [Bartol]. 14-148 Knurled Type Cathode-Construction and Life Test
Theory of Dark-Trace Tubes, IV [Carnegie 1nst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of	1943 [Bartol]. 14-I48
Theory of Dark-Trace Tubes, IV [Carnegie 1nst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of	1943 [Bartol]. 14-148 Knarted Type Cathode-Construction and Life Test [CRL]. Maynetena Cathode Studies, Progress Report, July 1, 1943 [Bartol]. 14-169
Theory of Dark-Trace Tubes, IV [Carnegie 1nst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Sersen Materials [DuMont Labs.]. 14-269	1943 [Bartol]. 14-148 Knurled Type Cathode-Construction and Life Test [CRI.]. 14-149 Mayueteuu Cathode Studies, Froyress Report, July 1, 1943 [Bartol]. 14-169 Magnetrau Cathode Studies, Progress Reparl, Sept.
Theory of Dark-Trace Tabes, IV [Carnegie 1nst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Sersen Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Screens Under Electron Bombardment [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Lagers of Potassium	1943 [Bartol]. 14-148 Knarled Type Cathode-Construction and Life Test [CRI.]. 14-149 Mayaetean Cathode Studies, Progress Report, July 1, 1943 [Bartol]. 14-169 Magnetran Cathode Studies, Progress Repart, Sept. 1, 1943 [Bartal]. 14-187
Theory of Dark-Trace Tubes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Screens Under Electron Bombardment [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Layers of Potassium Chloride Containing Small Additions of Metallic	1943 [Bartol]. 14-148 Knurled Type Cathode-Construction and Life Test [CRI.]. 14-149 Mayueteuu Cathode Studies, Froyress Report, July 1, 1943 [Bartol]. 14-169 Magnetrau Cathode Studies, Progress Reparl, Sept.
Theory of Dark-Trace Tubes, IV [Carnegie 1nst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Screens Under Electron Bombardment [Carnegie 1nst. of Tech.]. 14-302 The Properties of Evaporated Layers of Polassium Chloride Containing Small Additions of Metallic Elements When Subjected to Electron Bombard-	1943 [Bartol]. 14-148 Knurled Type Cathode-Construction and Life Test [CRL]. 14-149 Mayactem Cathode Studies, Progress Report, July 1, 1943 [Bartol]. 14-169 Magnetran Cathode Studies, Progress Repart, Sept. 1, 1943 [Bartol]. 14-187 Magnetron Cathode Studies, Progress Report, Nov. 1, 1943 [Bartol]. 14-209 Magnetron Cathode Studies, Progress Report, Jan.
Theory of Dark-Trace Tabes, IV [Carnegie 1nst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Screens Under Electron Bombardment [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Lagers of Potassina Chloride Containing Small Additions of Metallic Elements When Subjected to Electron Bombardment [Carnegie Inst. of Tech.]. 14-326	1943 [Bartol].  Knarled Type Cathode-Construction and Life Test [CRL].  14-149 Mayacteaa Cathode Studies, Froyress Report, July 1, 1943 [Bartol].  14-169 Magnetrau Cathode Studies, Prayress Repart, Sept. 1, 1943 [Bartol].  14-187 Magnetron Cathode Studies, Prayress Report, Nov. 1, 1943 [Bartol].  14-209 Magnetron Cathode Studies, Progress Report, Jan. 1, 1944 [Bartol].
Theory of Dark-Trace Tubes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Screens Under Electron Bombardment [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Layers of Potassium Chloride Containing Small Additions of Metallic Elements When Subjected to Electron Bombard-	1943 [Bartol].  Knarled Type Cathode-Construction and Life Test [CRL].  14-149 Mayactem Cathode Studies, Froyress Report, July 1,  1943 [Bartol].  14-169 Magnetrem Cathode Studies, Prayress Repart, Sept.  1, 1943 [Bartol].  14-187 Magnetren Cathode Studies, Progress Report, Nov.  1, 1943 [Bartol].  14-209 Magnetren Cathode Studies, Progress Report, Jan.  1, 1944 [Bartol].  14-251 Cuthode Sparking, Effect of Super-Imposed D.C. oad
Theory of Dark-Trace Tubes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Servens Under Electron Bombardment [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Layers of Potassium Chloride Containing Small Additions of Metallic Elements When Subjected to Electron Bombardment [Carnegie Inst. of Tech.]. 14-326 Skiatron Projection Cathodr-Ray Takes with Dark-Trace P10 Servens [RCA]. 14-369 Cathode Ray Tube Detectors [Brown]. 14-376	1943 [Bartol].  Knarled Type Cathode-Construction and Life Test [CRI.], Mayacteau Cathode Studies, Proyress Report, July 1, 1943 [Bartol].  Magnetran Cathode Studies, Pragress Repart, Sept. 1, 1943 [Bartol].  Magnetron Cathode Studies, Progress Report, Nov. 1, 1943 [Bartol].  14-209 Magnetron Cathode Studies, Progress Report, Jan. 1, 1944 [Bartol].  14-251 Cuthode Sparking, Effect of Super-Imposed D.C. oad Role of Coating Resistance [Bartol].
Theory of Dark-Trace Tabes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KCI Crystals and Servens Under Electron Bombardment [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Layers of Potassima Chloride Containing Small Additions of Metallic Elements When Subjected to Electron Bombardment [Carnegie Inst. of Tech.]. 14-326 Skintron Projection Cathods-Ray Takes with Dark-Trace P10 Servens [RCA]. 14-369 Cathode Ray Tube Detectors [Brown]. 14-376 Preparation of Exponential Decay Powders and	1943 [Bartol].  Knarled Type Cathode-Construction and Life Test [CRL].  14-149 Mayactem Cathode Studies, Progress Report, July 1,  1943 [Bartol].  14-169 Magnetrem Cathode Studies, Progress Repart, Sept.  1, 1943 [Bartol].  14-187 Magnetrem Cathode Studies, Progress Report, Nov.  1, 1943 [Bartol].  14-209 Magnetrem Cathode Studies, Progress Report, Jan.  1, 1944 [Bartol].  14-251 Cuthode Sparking, Effect of Super-Imposed D.C. oad
Theory of Dark-Trace Tabes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KCI Crystals and Servens Under Electron Bombardment [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Layers of Potassina Chloride Containing Small Additions of Metallic Elements When Subjected to Electron Bombardment [Carnegie Inst. of Tech.]. 14-326 Skiatron Projection Cathods Ray Takes with Dark-Trace P10 Servens [RCA]. 14-369 Cathode Ray Tube Detectors [Brown]. 14-376 Preparation of Exponential Decay Powders and Servens ZnF.:Mn, ZnMyF.:Ma and MgSiO.:Ma	1943 [Bartol]. 14-148 Knarled Type Cathode-Construction and Life Test [CRL]. 14-149 Mayactean Cathode Studies, Progress Report, July 1, 1943 [Bartol]. 14-169 Magnetren Cathode Studies, Progress Repart, Sept. 1, 1943 [Bartol]. 14-187 Magnetren Cathode Studies, Progress Report, Nov. 1, 1943 [Bartol]. 14-299 Magnetren Cathode Studies, Progress Report, Jan. 1, 1944 [Bartol]. 14-255 Cuthode Sparking, Effect of Super-Imposed D.C. oad Role of Coating Resistance [Bartol]. 14-295 Sparking of Oxide-Coated Cathodes [Bartol]. 14-296 Back-Bandardment of Magnetren Cathodes [Bartol]. 14-309
Theory of Dark-Trace Tubes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Servens Under Electron Bombardaeut [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Layers of Potassina Chloride Contoining Small Additions of Metallic Elements When Subjected to Electron Bombardment [Carnegie Inst. of Tech.]. 14-328 Skiatron Projection Cathods-Ray Takes with Dark-Trace P10 Servens [RCA]. 14-369 Cathode Ray Tube Detectors [Brown]. 14-376 Preparation of Exponential Decay Powders and Servens ZnF.:Mn, ZnMyF.:Mn and MySiO:Ma [Sylvania]. 14-379	1943 [Bartol].  Knarled Type Cathode-Construction and Life Test [CRL].  Mayacteau Cathode Studies, Proyress Report, July 1,  1943 [Bartol].  Magnetran Cathode Studies, Progress Report, Sept.  1, 1943 [Bartol].  Magnetron Cathode Studies, Progress Report, Nov.  1, 1943 [Bartol].  14-209  Magnetron Cathode Studies, Progress Report, Jan.  1, 1944 [Bartol].  14-251  Cuthode Sparking, Effect of Super-Imposed D.C. oad  Role of Coating Resistance [Bartol].  14-295  Sparking of Oxide-Coated Cathodes [Bartol].  14-396  Back-Baachardment of Magnetron Cathodes [Bartol].  14-396  Secondary Kleetron Emission from Oxide-Coated
Theory of Dark-Trace Tabes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Servens Under Electron Bombardment [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Layers of Potassium Chloride Containing Small Additions of Metallic Elements When Subjected to Electron Bombardment [Carnegie Inst. of Tech.]. 14-326 Skiatron Projection Cathodr-Ray Takes with Dark-Trace P10 Servens [RCA]. 14-369 Cathode Ray Tube Detectors [Brown]. 14-376 Preparation of Exponential Decay Powders and Servens ZnF2:Ma, ZnMyF:Ma and MgSiO:Ma [Sylvania]. 14-379 Development of the Skiatron Cathode Ray Tube for	1943 [Bartol].  Knarled Type Cathode-Construction and Life Test [CRL].  14-149 Mayactean Cathode Studies, Froyress Report, July 1, 1943 [Bartol].  Magnetran Cathode Studies, Prayress Report, Sept. 1, 1943 [Bartal].  14-187 Magnetron Cathode Studies, Prayress Report, Nov. 1, 1943 [Bartol].  14-209 Magnetron Cathode Studies, Progress Report, Jan. 1, 1944 [Bartol].  14-251 Cuthode Syarking, Effect of Super-Imposed D.C. and Role of Coating Resistance [Bartol].  14-295 Sparking of Oxide-Coated Cathodes [Bartol].  14-309 Secandary Kleetron Emission from Oxide-Coated Magnetron Cathodes [Bartol].
Theory of Dark-Trace Tubes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Servens Under Electron Bombardaeut [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Layers of Potassina Chloride Contoining Small Additions of Metallic Elements When Subjected to Electron Bombardment [Carnegie Inst. of Tech.]. 14-328 Skiatron Projection Cathods-Ray Takes with Dark-Trace P10 Servens [RCA]. 14-369 Cathode Ray Tube Detectors [Brown]. 14-376 Preparation of Exponential Decay Powders and Servens ZnF.:Mn, ZnMyF.:Mn and MySiO:Ma [Sylvania]. 14-379	1943 [Bartol].  Knarled Type Cathode-Construction and Life Test [CRL].  14-149 Mayactean Cathode Studies, Froyress Report, July 1,  1943 [Bartol].  14-169 Magnetren Cathode Studies, Prayress Repart, Sept.  1, 1943 [Bartol].  14-187 Magnetren Cathode Studies, Prayress Report, Nov.  1, 1943 [Bartol].  14-209 Magnetren Cathode Studies, Progress Report, Jan.  1, 1944 [Bartol].  14-251 Cuthode Sparkiny, Effect of Super-Imposed D.C. and Role of Coating Resistance [Bartol].  14-295 Sparking of Oxide-Coated Cathodes [Bartol].  14-309 Secandacy Electron Emission from Oxide-Coated Magnetron Cathodes [Bartol].  14-309 Secandacy Electron Emission from Oxide-Coated Magnetron Cathodes [Bartol].  14-310 Cathode Coating Resistance an Measured by Emission
Theory of Dark-Trace Tabes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Servens Under Electron Bombardaneat [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Layers of Polassina Chloride Containing Small Additions of Metallic Elements When Subjected to Electran Bombardment [Carnegie Inst. of Tech.]. 14-326 Skiatron Projection Cathode-Ray Takes with Dark-Trace P10 Servens [RCA]. 14-369 Cathode Ray Tube Detectors [Brown]. 14-376 Preparation of Exponential Decay Powders and Servens ZnF.::Mn, ZnMyF.:Ma and MgSiO:Ma [Sylvania]. 14-379 Development of the Skiatron Cathode Ray Tube for Projection Indicator, Proyress Repart No. 4 [RCA]. Recease the Material Contains to New and Im-	1943 [Bartol].  Knarled Type Cathode-Construction and Life Test [CRL].  14-149 Mayactean Cathode Studies, Froyress Report, July 1,  1943 [Bartol].  14-169 Magnetren Cathode Studies, Prayress Repart, Sept.  1, 1943 [Bartol].  14-187 Magnetren Cathode Studies, Prayress Report, Nov.  1, 1943 [Bartol].  14-209 Magnetren Cathode Studies, Progress Report, Jan.  1, 1944 [Bartol].  14-251 Cathode Sparkiny, Effect of Super-Imposed D.C. and Role of Coating Resistance [Bartol].  14-295 Sparking of Oxide-Coated Cathodes [Bartol].  14-309 Secandacy Electron Emission from Oxide-Coated Magnetron Cathodes [Bartol].  14-309 Secandacy Electron Emission from Oxide-Coated Magnetron Cathodes [Bartol].  14-310 Cathode Coating Resistance on Measured by Em-
Theory of Dark-Trace Tabes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Servens Under Electron Bombardment [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Layers of Potassium Chloride Containing Small Additions of Metallic Elements When Subjected to Electron Bombardment [Carnegie Inst. of Tech.]. 14-326 Skiatron Projection Cathods-Ray Takes with Dark-Trace P10 Servens [RCA]. 14-369 Cathode Ray Tube Detectors [Brown]. 14-376 Preparation of Exponential Decay Powders and Servens ZnF <sub>2</sub> :Mn, ZnMyF <sub>2</sub> :Mn and MgSiO::Mn [Sylvania]. 14-379 Development of the Skiatron Cathode Ray Tube for Projection Indicator, Progress Report No. 4 [RCA]. Research and Development Leading to New and Improved Radar Indicators, Text and Figures, Final	1943 [Bartol].  Knarled Type Cathode-Construction and Life Test [CRL].  14-149 Mayacteaa Cathode Studies, Froyress Report, July 1, 1943 [Bartol].  14-169 Magnetrew Cathode Studies, Prayress Report, Sept. 1, 1943 [Bartal].  14-187 Magnetren Cathode Studies, Prayress Report, Nov. 1, 1943 [Bartol].  14-209 Magnetren Cathode Studies, Progress Report, Jan. 1, 1944 [Bartol].  14-251 Cathode Sparking, Effect of Super-Imposed D.C. oad Role of Coating Resistance [Bartol].  14-295 Sparking of Oxide-Coated Cathodes [Bartol]. 14-295 Back-Bunchardment of Magnetren Cathodes [Bartol].  14-309 Secondacy Electron Emission from Oxide-Coated Magnetren Cathodes [Bartol].  14-310 Cathode Coating Resistance as Measured by Emhedded Prakes [Bartol].  14-314 Serondary Electrue Emission from Oxide-Coated Cathodes [Bartol].
Theory of Dark-Trace Tubes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Servens Under Electron Bombardment [Carnegie Inst. of Tech.]. 14-303 The Properties of Evaporated Layers of Potassium Chloride Containing Small Additions of Metallic Elements When Subjected to Electron Bombardment [Carnegie Inst. of Tech.]. 14-326 Skiatron Projection Cathodr-Ray Takes with Dark-Trace P10 Servens [RCA]. 14-369 Cathode Ray Tube Detectors [Brown]. 14-376 Preparation of Exponential Decay Powders and Servens Zuff.:Ma, ZuMyf.:Ma and MySiO.:Ma [Sylvania]. 14-379 Development of the Skiatron Cathodr Ray Tube for Projection Indicator, Proyress Report No. 4 [RCA]. 14-492 Research and Development Leading to New and Improved Radar Indicators, Text and Figures, Final Report [RCA].	1943 [Bartol].  Knarled Type Cathode-Construction and Life Test [CRL].  Mayactean Cathode Studies, Froyress Report, July 1, 1943 [Bartol].  Magnetrew Cathode Studies, Progress Report, Sept. 1, 1943 [Bartol].  Magnetrew Cathode Studies, Progress Report, Nov. 1, 1943 [Bartol].  Magnetrem Cathode Studies, Progress Report, Nov. 1, 1943 [Bartol].  14-209  Magnetrem Cathode Studies, Progress Report, Jan. 1, 1944 [Bartol].  14-255  Cuthode Sparking, Effect of Super-Imposed D.C. and Role of Coating Resistance [Bartol].  14-295  Sparking of Oxide-Coated Cathodes [Bartol]. 14-296  Back-Bankardment of Magnetrem Cathodes [Bartol].  14-309  Secondacy Electron Emission from Oxide-Coated Magnetron Cathodes [Bartol].  Cathode Coating Resistance as Measured by Emhedded Frakes [Bartol].  Serandary Electron Emission from Oxide-Coated Cathodes [Bartol].  Serandary Electron Emission from Oxide-Coated Cathodes [Bartol].  Serandary Electron Emission from Oxide-Coated Cathodes [Bartol].
Theory of Dark-Trace Tabes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Servens Under Electron Bombardment [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Layers of Potassima Chloride Contoining Small Additions of Metallic Elements When Subjected to Electron Bombardment [Carnegie Inst. of Tech.]. 14-328 Skiatron Projection Cathods Ray Takes with Dark-Trace P10 Servens [RCA]. 14-369 Cathode Ray Tube Detectors [Brown]. 14-376 Preparation of Exponential Decay Powders and Servens ZnF.: Mn. ZnMyF.: Mn. and MySiO: Ma. [Sylvania]. 14-379 Development of the Skiatron Cathods Ray Tube for Projection Indicator, Progress Report No. 4 [RCA]. 14-492 Research and Development Leading to New and Improved Radar Indicators, Text and Figures, Final Report [RCA]. 14-498 Cathode Ray Serven Tube Development [DuMont.]	1943 [Bartol].  Knarled Type Cathode-Construction and Life Test [CRL].  14-149 Mayactean Cathode Studies, Froyress Report, July 1, 1943 [Bartol].  Magnetran Cathode Studies, Progress Report, Sept. 1, 1943 [Bartol].  14-189 Magnetron Cathode Studies, Progress Report, Nov. 1, 1943 [Bartol].  14-209 Magnetron Cathode Studies, Progress Report, Jan. 1, 1944 [Bartol].  14-251 Cuthode Syarking, Effect of Super-Imposed D.C. and Role of Coating Resistance [Bartol]. 14-295 Sparking of Oxide-Coated Cathodes [Bartol]. 14-296 Back-Bumbardment of Magnetron Cathodes [Bartol].  Secandacy Electron Emission from Oxide-Coated Magnetron Cathodes [Bartol].  Cathode Coating Resistance an Measured by Emhedded Frahes [Bartol].  Serondary Electron Emission from Oxide-Coated Cathodes [Bartol].  14-515 Spacking Phenamena in High Vacama Thermionic Takes, General Surery [Bartol]  14-515
Theory of Dark-Trace Tabes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Servens Under Electron Bombardaneat [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Layers of Polassima Chloride Containing Small Additions of Metallic Elements When Subjected to Electran Bombardment [Carnegie Inst. of Tech.]. 14-326 Skiatron Projection Cathode-Ray Takes with Dark-Trace P10 Servens [RCA]. 14-369 Cathode Ray Tube Detectors [Brown]. 14-376 Preparation of Exponential Decay Powders and Servens ZnF.:Mn, ZnMyF.:Mn and MgSiO:Mn [Sylvania]. 14-379 Development of the Skiatron Cathode Ray Tube for Projection Indicator, Proyress Report No. 4 [RCA]. 14-492 Research and Development Leading to New and Improved Radar Indicators, Text and Figures, Final Report [RCA].	1943 [Bartol].  Knarled Type Cathode-Construction and Life Test [CRL].  Mayacteea Cathode Studies, Froyress Report, July 1, 1943 [Bartol].  Magnetrew Cathode Studies, Prayress Report, Sept. 1, 1943 [Bartol].  Magnetrew Cathode Studies, Prayress Report, Nov. 1, 1943 [Bartol].  Magnetrew Cathode Studies, Progress Report, Nov. 1, 1943 [Bartol].  14-209  Magnetrew Cathode Studies, Progress Report, Jan. 1, 1944 [Bartol].  14-251  Cuthode Sparking, Effect of Super-Imposed D.C. and Role of Coating Resintance [Bartol].  14-295  Sparking of Oxide-Coated Cathodes [Bartol]. 14-296  Back-Bambardment of Magnetrew Cathodes [Bartol].  14-309  Secondacy Electron Emission from Oxide-Coated Magnetron Cathodes [Bartol].  Cathode Coating Resistence as Measured by Emhedded Frakes [Bartol].  Serandary Electron Emission from Oxide-Coated Cathodes [Bartol].  Serandary Electron Emission from Oxide-Coated Cathodes [Bartol].  Serandary Electron Emission from Oxide-Coated Cathodes [Bartol].
Theory of Dark-Trace Tabes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Servens Under Electron Bombardaeut [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Layers of Potassima Chloride Contoining Small Additions of Metallic Elements When Subjected to Electron Bombardment [Carnegie Inst. of Tech.]. 14-328 Skintron Projection Cathods Ray Takes with Dark-Trace P10 Servens [RCA]. 14-369 Cathode Ray Tube Detectors [Brown]. 14-376 Preparation of Exponential Decay Powders and Servens ZnF.:Mn., ZnMyF.:Mn. and MySiO:Ma [Sylvania]. 14-379 Development of the Skiatron Cathode Ray Tube for Projection Indicator, Progress Report No. 4 [RCA]. 14-492 Research and Development Leading to New and Improved Radar Indicators, Text and Figures, Final Report [RCA]. 14-498 Cathode Ray Serven Tube Development [DuMont.]	1943 [Bartol].  Knurled Type Cathode-Construction and Lifo Test [CRL].  14-149 Mayaetean Cathode Studies, Proyress Report, July 1, 1943 [Bartol].  Magnetran Cathode Studies, Proyress Report, Sept. 1, 1943 [Bartol].  Magnetron Cathode Studies, Progress Report, Nov. 1, 1943 [Bartol].  14-209 Magnetron Cathode Studies, Progress Report, Nov. 1, 1943 [Bartol].  14-209 Magnetron Cathode Studies, Progress Report, Jan. 1, 1944 [Bartol].  14-251 Cathode Sparking, Effect of Super-Imposed D.C. and Role of Coating Resistance [Bartol].  14-296 Back-Bambardment of Magnetron Cathodes [Bartol].  14-309 Secandacy Electron Emission from Oxide-Coated Magnetron Cathodes [Bartol].  14-310 Cathode Coating Resistance an Measured by Emhedded Frakes [Bartol].  14-515 Spacking Phenaucum in High Vacama Thermionic Takes, General Surery [Bartol].  14-516 Sintered Thocia Cathodes [Bartol].  14-517 Effect of Partirle Size [Bartol].  14-518 Partification of Bactom and Steentime Carbonates
Theory of Dark-Trace Tubes, IV [Carnegie Inst. of Tech.]. 14-265 The Spectral Distribution of the Laminescence of Red Serven Materials [DuMont Labs.]. 14-269 Aging of KC1 Crystals and Servens Under Electron Bombardment [Carnegie Inst. of Tech.]. 14-302 The Properties of Evaporated Layers of Potassium Chloride Containing Small Additions of Metallic Elements When Subjected to Electron Bombardment [Carnegie Inst. of Tech.]. 14-326 Skiatron Projection Cathode-Ray Tubes with Dark-Trace P10 Servens [RCA]. 14-369 Cathode Ray Tube Detectors [Brown]. 14-376 Preparation of Exponential Decay Powders and Servens ZnF.:Mn, ZnMyF.:Ma and MgSiO::Ma [Sylvania]. 14-379 Development of the Skiatron Cathode Ray Tube for Projection Indicator, Progress Repart No. 4 [RCA]. 14-492 Research and Development Leading to New and Improved Radar Indicators, Text and Figures, Final Report [RCA]. 14-498 Cathode-Ray Serven Tube Development [DuMont.] 14-509 Investigations to Prepare a Transparent Phamphor,	1943 [Bartol].  Knarled Type Cathode-Construction and Life Test [CRL].  14-149 Mayacteau Cathode Studies, Froyress Report, July 1, 1943 [Bartol].  14-169 Magnetreu Cathode Studies, Proyress Report, Sept. 1, 1943 [Bartol].  14-187 Magnetren Cathode Studies, Proyress Report, Nov. 1, 1943 [Bartol].  14-299 Magnetren Cathode Studies, Proyress Report, Jan. 1, 1944 [Bartol].  14-251 Cathode Sparkiny, Effect of Super-Imposed D.C. and Role of Coating Resistance [Bartol].  14-295 Sparking of Oxide-Coated Cathodes [Bartol].  14-309 Secondary Electron Emission from Oxide-Coated Magnetron Cathodes [Bartol].  14-310 Cathode Coating Resistance on Measured by Emhedded Frakes [Bartol].  14-310 Cathodes [Bartol].  Serondary Electron Emission from Oxide-Coated Cathodes [Bartol].  14-514 Serondary Electron Emission from Oxide-Coated Cathodes [Bartol].  14-515 Spacking Phenaucum in High Vacama Thermionic Takes, General Survery [Bartol].  14-516 Sintered Thocia Cathodes [Bartol].  14-517 Kifret of Particle Size [Bartol].

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Magnetron Cuthole Studies, Final Repurt [Bartol].  14-545  Effects of Variation of Vane Width and Cuthode Size on the Operatino of Magnetrons. RL-586  Cothodes for I'nlsed Magnetrans. Part I—Coreclotions between Oscillating and Biode Conditions.  RL-609  Cathodes for Pulsed Magnetrons. Part II—Coastruction and Performence of Pulsed Cothodes. RL-683  Memorandum on the Activation of Various Surfaces by Evoporation from a Heated Oxide Cuthode.  RL-718  Metallic Hydride Studies.  Alkaline Eorth Oxide Cathodus for I'ulaci Tubes.  RL-933  CAVITIES, see also Test Equipment, TR and ATR Switches  Perturbation Theory for Cacitics [Cornell].  Special Report on Tanable Cavitivs.  RL-143  Forced Oscillations in Cavity Resonators. RL-188  Excitation of Cavities through Windows.  RL-202  Theory of Obstacles in Resonant Covities and Wive Guides.  The Resonant Echo Box.  Committee on Centimeter Receiving Tubes and Resonators.  RL-286  A Treatment of Echo Box Prablems by Lagrangian Procedures, Purt I.  Theory of Ringing Time of Tunable Echo Box.  RL-630  Desigo of an Improved X-Read Echo Rox.  RL-630  R-630  Perigo of an Improved X-Read Echo Rox.  RL-646  X-Rand Beocans Reference Cuvities.  RL-972	Gutes and Reluted Matters, Progress Report No. 2, June 1, 1943 [Rensselaer Polytech.]. 14-158 Anolysis of 6SA7 Guted Amplifier [Cornell]. 14-158 Analysis of Double Triode Integrator [Cornell]. Range Tracking Circuit with Position Memory [Cornell]. Range Tracking Circuit with Velocity Memory [Cornell]. 14-160 Ronge Tracking Circuit with Velocity Memory [Cornell]. 14-161 Coordinate Transformation Circuits Using Resolvers and Chardinate Transformation by Memor of Elec-
Effects of Variation of Vane Width und Cuthode Size on the Operatino of Magnetrons. RL-586 Cothodes for I'nlsed Magnetrans. Purt I—Coreclotions between Oscillating and Biode Conditions. RL-609 Cathodes for Pulsed Magnetrons. Part II—Coastruction and Performonee of Pulsed Cothodes. RL-683 Memorandum on the Activation of Various Surfaces by Evoporation from a Heated Oxide Cuthode. RL-718 Metallic Hydride Stadies. Alkaline Eorth Oxide Cathodes for I'ulaed Tubes. RL-933 CAVITIES, see also Test Equipment, TR and ATR Switches Perturbation Theory for Cacitics [Cornell]. 14-117 Special Report on Tanable Cavitiva. RL-188 Excitation of Cavities through Windows. RL-202 Theory of Obstacles in Cavity Resonators. RL-188 Excitation of Cavities through Windows. RL-205 The Resonant Echo Box. Committee on Centimeter Receiving Tubra and Resonators. RL-286 A Treatment of Echo Box Prablems by Lagrangian Procedures, Purt I. RL-630 Desigo of an Improved X-Read Echo Rox. RL-631 A Treatment of Echo Bux Problems by Lagrangian Procedures, Part II. RL-696 X-Band Becomm Reference Cuvities. RL-972	June 1, 1943 [Rensselser Polytech.]. 14-155 Anolysis of 6SA7 Guted Amplifier [Cornell]. 14-158 Analysis of Double Triode Integrator [Cornell]. 14-159 Range Trucking Circuit with Position Memory [Cornell]. Ronge Tracking Circuit with Velocity Memory [Cornell]. Coordinate Transformation Circuits Using Resolvers and Cnordinate Transformation by Memory Elec-
Effects of Variation of Vane Width and Cuthode Size on the Operation of Magnetrons. RL-586 Cothodes for Pulsed Magnetrans. Part I—Corcelotions between Oscillating and Biode Conditions. RL-609 Cathodes for Pulsed Magnetrons. Part II—Construction and Performonce of Pulsed Cothodes. RL-683 Menorandum on the Activation of Various Surfaces by Evoporation from a Heated Oxide Cuthode. RL-718 Metallie Hydride Studies. RL-813 Alkaline Eorth Oxide Cathodus for Pulsed Tubes. RL-933 CAVITIES, see also Test Equipment, TR and ATR Switches Perturbation Theory far Cavities   Cornell   14-117 Special Report on Tunable Cavitivs. RL-143 Forced Oscillations in Cavity Resonators. RL-188 Excitation of Cavities through Windows. RL-202 Theory of Obstacles in Resonant Covities and Wave Guides. RL-205 The Resonant Echo Box. RL-205 The Resonant Echo Box. RL-205 The Resonant Echo Box. RL-205 The Resonant Echo Box Prablems by Lagrangian R- Procedures, Part I. RL-630 Desigo of an Improved X-Rund Echo Box. RL-630 Desigo of an Improved X-Rund Echo Box. RL-630 A Treatment of Echo Box Problems by Lagrangian R- Procedures, Part II. RL-696 X-Band Begenns Reference Cuvities. RL-972	Anolysis of 6SA7 Guted Amplifier   Cornell   14-158 Analysis of Double Triode Integrator   Cornell   14-159 Range Trucking Circuit with Position Memory (Cor- uell   14-160 Range Tracking Circuit with Velocity Memory   Cor- nell   14-161 Coordinate Transformation Circuits Using Resolvers and Cuordinate Transformation by Memor of Elec-
Size on the Operatino of Magnetrons. RL-586 Cothodes for Pulsed Magnetrans. Purt I—Corcelotions between Oscillating and Biode Conditions. RL-609 Cathodes for Pulsed Magnetrons. Part II—Construction and Performance of Pulsed Cothodes. RL-683 Memorandum on the Activation of Varions Surfaces by Evoporation from a Heated Oxide Cuthode. RL-718 Metallie Hydride Stadies. RL-813 Alkaline Earth Oxide Cathodus for Pulsed Tubes. RL-933 CAVITIES, see also Test Equipment, TR and ATR Switches Perturbation Theory for Cavities [Cornell]. 14-117 Special Report on Tunable Cavitiva. RL-143 Forced Oscillations in Cavity Resonators. RL-188 Excitation of Cavities through Windows. RL-202 Theory of Obstacles in Resonant Cavities and Wive Guides. RL-205 The Resonant Echo Box. RL-277 Committee on Centimeter Receiving Tubes and Resonators. A Treatment of Echo Box Problems by Lagrangian Procedures, Purt I. Theory of Ringing Time of Tunable Echo Box. RL-630 Desigo of an Improved X-Rand Echo Rox. RL-630 Desigo of an Improved X-Rand Echo Rox. RL-636 X-Band Beocans Reference Cavities. RL-972	Analysis of Double Triode Integrator [Cornell].  14-159 Range Tracking Circuit with Position Memory [Cor- uell]. Ronge Tracking Circuit with Velocity Memory [Cor- nell].  14-161 Coordinate Transformation Circuits Using Resolvers and Coordinate Transformation by Memory of Eluc-
Cothodes for Pulsed Magnetrans, Part I—Coreelotions between Oscillating and Biode Conditions, RL-609 Cathodes for Pulsed Magnetrons, Part II—Construction and Performence of Pulsed Cothodes, RL-683 Memorandum on the Activation of Various Surfaces by Evoporation from a Heated Oxide Cuthode, RL-718 Metallie Hydride Studies, RL-813 Alkaline Eorth Oxide Cathodus for Pulsed Tubes, RL-933 CAVITIES, see also Test Equipment, TR and ATR Switches Perturbation Theory for Cavities   Cornell   14-117 Special Report on Tanable Cavitivs, RL-143 Forced Oscillations in Cavity Resonators, RL-188 Excitation of Cavities through Windows, RL-202 Theory of Obstacles in Resonant Covities and Wive Guides, RL-205 The Resonant Echo Box, RL-277 Committee on Centimeter Receiving Tubes and Resonators, RL-286 A Treatment of Echo Box Prablems by Lagrangian Procedures, Part I. Theory of Ringing Time of Tunable Echo Box. In RL-630 Design of an Improved X-Band Echo Box, RL-630 Design of an Improved X-Band Echo Box, RL-630 Perign of an Improved X-Band Echo Box, RL-630 A Treatment of Echo Box Problems by Lagrangian Procedures, Part II.	14-159 Range Tracking Circuit with Position Memory [Cor- well]. 14-160 Ronge Tracking Circuit with Velocity Memory [Cor- nell]. 14-161 Coordinate Transformation Circuits Using Resolvers and Cnordinate Transformation by Memor of Elec-
tions between Oscillating and Biode Conditions. RL-609 Cathodes for Pulsed Magnetrons. Part II—Coastruetion and Performonce of Pulsed Cothodes. RL-683 Memograndum on the Activation of Various Surfaces by Evoporation from a Heated Oxide Cuthode. RL-718 Metallic Hydride Studies. RL-813 Alkaline Eorth Oxide Cathodus for Pulsed Tubes. RL-933 CANITIES, see also Test Equipment, TR and ATR Switches Perturbation Theory for Cacities   Cornell   14-117 Special Report on Tunable Cavitivs. RL-143 Forced Oscillations in Cavity Resonators. RL-188 Excitation of Cavities through Windows. RL-202 Theory of Obstacles in Resonant Covities and Wave Guides. RL-205 The Resonant Echo Box. RL-277 Committee on Centimeter Receiving Tubes and Resonators. RL-286 A Treatment of Echo Box Prablems by Lagrangian Procedures, Part I. RL-629 Theory of Ringing Time of Tunable Echo Box. RL-630 Design of an Improved X-Rand Echo Hox. RL-636 X-Band Becomm Reference Cuvities. RL-696 X-Band Becomm Reference Cuvities. RL-972	Range Tracking Circuit with Position Memory (Cor- aell). 14-160 Ronge Tracking Circuit with Velocity Memory (Cor- nell). 14-161 Coordinate Transformation Circuits Using Resolvers and Cnordinate Transformation by Muns of Elec-
Cathodes for Pulsed Mugnetrons. Part II—Coastruction and Performonce of Pulsed Cothodes. RL-683 Menorandum on the Activation of Various Surfaces by Evoporation from a Heated Oxide Cuthode. RL-718 Metallic Hydride Studies. RL-813 Alkaline Earth Oxide Cathodus for Pulsed Tubes. RL-933 CAVITIES, see also Test Equipment, TR and ATR Switches Perturbation Theory for Cacities   Cornell   14-117 Special Report on Tunable Cavitivs. RL-143 Forced Omeillations in Cavity Resonators. RL-88 Excitation of Cavities through Windows. RL-202 Theory of Obstacles in Resonant Covities and Wave Guides. RL-205 The Resonant Echo Box. RL-277 Committee on Centimeter Receiving Tubes and Resonators. A Treatment of Echo Rox Prablems by Lagrangian Procedures, Part I. RL-630 Design of an Improved X-Rand Echo Rox. RL-631 A Treatment of Echo Box Problems by Lograngian Procedures, Part II. RL-696 X-Band Becomm Reference Cuvities. RL-872	uell].  14-160 Range Tracking Circuit with Velocity Memory [Cornell].  14-161 Coordinate Transformation Circuits Using Resolvers and Cnordinate Transformation by Mouns of Elec-
Cathodes for Pulsed Mugnetrons. Part II—Construction and Performance of Pulsed Cathodes. RL-683 Meioorandum on the Activation of Parions Surfaces by Evoporation from a Heated Oxide Cuthode.  RL-718 Metallie Hydride Studies. RL-813 Alkaline Earth Oxide Cathodus for Pulsed Tubes. RL-933 CAVIVIES, see also Test Equipment, TR and ATR Switches Perturbation Theory for Cavities   Cornell   14-117 Special Report on Tunable Cavitivs. RL-143 Forced Oscillations in Cavity Resonators. RL-188 Excitation of Cavities through Windows. RL-202 Theory of Obstacles in Resonant Cavities and Wave Guides. RL-205 The Resonant Echo Box. RL-277 Committee on Centimeter Receiving Tubes and Resonators. A Treatment of Echo Box Prablems by Lagrangian Procedures, Part 1. Theory of Ringing Time of Tunable Echo Box. RL-630 Design of an Improved X-Rand Echo Hox. RL-630 Design of an Improved X-Rand Echo Hox. RL-636 X-Band Becomm Reference Cuvities. RL-972	Ronge Tracking Circuit with Velocity Memory  Cor- nell . 14-161 Coordinate Transformation Circuits Using Resolvers and Cnordinate Transformation by Mouns of Elec-
tion and Performance of Pulsed Cathodes. RL-683 Metoorandum on the Activation of Various Surfaces by Evoporation from a Heated Oxide Cuthode. RL-718 Metallie Hydride Studies. Alkaline Earth Oxide Cathodus for Vulsed Tubes. RL-933 Cavities, see also Test Equipment, TR and ATR Switches Perturbation Theory for Cacities   Cornell   14-117 Special Report on Tunable Cavities. RL-143 Forced Oscillations in Cuvity Resonators. RL-188 Excitation of Cavities through Windows. RL-202 Theory of Obstacles in Resonant Cavities and Wive Guides. RL-205 The Resonant Echo Box. RL-277 Committee on Centimeter Receiving Tubes and Resonators. RL-286 A Treatment of Echo Rox Prablems by Lagrangian Procedures, Purt 1. Theory of Ringing Time of Tunable Echo Box. RL-630 Design of an Improved X-Rand Echo Hox. RL-630 A Treatment of Echo Box Problems by Lagrangian Procedures, Purt II. RL-696 X-Band Becomus Reference Cuvities. RL-872	nell]. 14-161 Coordinate Transformation Circuits Using Resolvers and Cnordinate Transformation by Mouns of Elec-
Mesorandum on the Activation of Various Surfaces by Evoporation from a Heated Oxide Cuthode.  RL-718  Metallic Hydride Studies. RL-813  Alkaline Earth Oxide Cathodus for Pulsed Tubes.  RL-933  Cavities, see also Test Equipment, TR and ATR Switches  Perturbation Theory for Cacities   Cornell   14-117  Special Report on Tunable Cavities. RL-148  Excitation of Cavities through Windows. RL-202  Theory of Obstacles in Resonant Cavities and Wine Guides. RL-277  Committee on Cavities through Windows. RL-277  Committee on Centineter Receiving Tubes and Resonators.  A Treatment of Echo Box Prableus by Lagrangian Procedures, Part I.  RL-629  Theory of Ringing Time of Tunable Echo Box. Inc. 630  Design of an Improved X-Rand Echo Hox. RL-631  A Treatment of Echo Box Problems by Lograngian Procedures, Part II.  RL-646  X-Band Beacaus Reference Curities. RL-872	Coordinate Transformation Circuits Using Resolvers and Cnordinate Transformation by Mouns of Elec-
bg Evoporation from a Heotest Oxide Cuthode. RL-718 RL-718 RL-813 Alkaline Hydride Studies. RL-813 Alkaline Eorth Oxide Cathodys for Pulsest Tubes. RL-933 CAVITIES, see also Test Equipment, TR and ATR Switches Perturbation Theory for Cavitics   Cornell   14-117 Special Report on Tunable Cavitiva. RL-143 Forced Oscillations in Cavity Resonators. RL-188 Excitation of Cavities through Windows. RL-202 Theory of Obstacles in Resonant Covitics and Wave Guides. RL-205 The Resonant Echo Box. RL-277 Committee on Centimeter Receiving Tubes and Resonators. A Treatment of Echo Box Problems by Lagrangian Procedures, Part I. RL-630 Design of an Improved X-Rand Echo Box. RL-631 A Treatment of Echo Box Problems by Lograngian Procedures, Part II. RL-696 X-Band Becomus Reference Curities. RL-872	and Coordinate Transformation by Mouns of Elec-
Metallie Hydride Studies.  Alkaline Eorth Oxide Cathodus for Pulseal Tubes. RL-933  CAVITIES, see also Test Equipment, TR and ATR Switches Perturbation Theory for Cavities   Cornell   14-117 Special Report on Tunable Cavitius. RL-143 Forced Oncillations in Cavity Resonators. RL-188 Excitation of Cavities through Windows. RL-202 Theory of Obstacles in Resonant Covities and Wave Guides. RL-205 The Resonant Echo Box. RL-277 Committee on Centimeter Receiving Tubes and Resonators. RL-286 A Treatment of Echo Box Prakleus by Lagrangian Procedures, Part 1. Theory of Ringing Time of Tunable Echo Box. I RL-630 Design of an Improved X-Rand Echo Hox. RL-631 A Treatment of Echo Box Problems by Logungiuo Procedures, Part II. KL-696 X-Band Becomus Reference Curities. RL-872	
Alkaline Eorth Oxide Cathodus for Pulsed Tubes.  RL-933  CAVITIES, see also Test Equipment, TR and ATR Switches  Perturbation Theory far Cacities   Cornell   14-117  Special Report on Tunable Cavities. RL-143  Forced Oscillations in Cuvity Resonators. RL-188  Excitation of Cavities through Windows. RL-202  Theory of Obstacles in Resonant Covities and Wuve Guides. RL-205  The Resonant Echo Box. RL-205  The Resonant Echo Box. RL-205  A Treatment of Echo Box Problems by Lagrangian Proceedures, Purt 1.  RL-629  Theory of Ringing Time of Tunable Echo Box. RL-630  Desigo of an Improved X-Rand Echo Hox. RL-631  A Treatment of Echo Box Problems by Lograngian Procedures, Purt II.  RL-646  X-Band Becoms Reference Curities. RL-872	
Alkaline Eorth Oxide Cathodus for Pulsed Tubes.  RL-933  AVITIES, see also Test Equipment, TR and ATR Switches  Perturbation Theory far Cacities   Cornell   14-117  Special Report on Tunable Cavities. RL-143  Forced Oscillations in Cuvity Resonators. RL-188  Excitation of Cavities through Windows. RL-202  Theory of Obstacles in Resonant Covities and Wuve Guides. RL-205  The Resonant Echo Box. RL-27  Committee on Centimeter Receiving Tubes and Resonators.  A Treatment of Echo Box Problems by Lagrangian Energy of Ringing Time of Tunable Echo Box.  Design of an Improved X-Rand Echo Hox. RL-630  Design of an Improved X-Rand Echo Hox. RL-631  A Treatment of Echo Box Problems by Lograngian Procedures, Part II.  RL-696  X-Band Becoms Reference Curities. RL-972	Instantaneous Voltage Measurement by Une of a
RL-933  ANITIES, see also Test Equipment, TR and ATR Switches Perturbation Theory far Cacities   Cornell   14-117 Special Report on Tunable Cavitiva. RL-143 Forced Oncillations in Curity Resonators. RL-188 Excitation of Cavities through Windows. RL-202 Theory of Obstacles in Resonant Covities and Wive Guides. RL-205 The Resonant Echo Box. RL-277 Committee on Centimeter Receiving Tubes and Resonators. A Treatment of Echo Box Prablems by Lagrangian Proceedures, Purt I. RL-630 Design of an Improved N-Band Echo Box. RL-631 A Treatment of Echo Bax Problems by Lograngino Procedures, Purt II. RL-646 X-Band Beccans Reference Curities. RL-696 X-Band Beccans Reference Curities. RL-672	Trigger Circuit, Final Technical Report   Kansas
Switches Perturbation Theory for Cacities   Cornell   . 14-117 Special Report on Tunable Cavitiva, RL-143 Forced Oscillations in Cuvity Resonators, RL-188 Excitation of Cavities through Wiadows, RL-202 Theory of Obstacles in Resonant Covities and Wine Guides. RL-205 The Resonant Echo Box, RL-277 Committee on Centimeter Receiving Tubes and Resonators, RL-286 A Treatment of Echo Box Prablems by Lagrangian R-Procedures, Part I. RL-629 Theory of Ringing Time of Tunable Echo Box. RL-630 Design of an Improved N-Rand Echo Box. RL-631 A Treatment of Echo Box Problems by Lograngian Procedures, Part II. RL-666 X-Rand Beocaus Reference Curities, RL-672	State College]. 14-409
Switches Perturbation Theory for Cacities   Cornell   . 14-117 Special Report on Tunable Cavitiva, RL-143 Forced Oscillations in Cuvity Resonators, RL-188 Excitation of Cavities through Wiadows, RL-202 Theory of Obstacles in Resonant Covities and Wine Guides, RL-205 The Resonant Echo Box, RL-277 Committee on Centimeter Receiving Tubes and Resonators, RL-286 A Treatment of Echo Box Prablems by Lagrangian R-Procedures, Part I, RL-629 Theory of Ringing Time of Tunable Echo Box, RL-630 Denigo of an Improved N-Rand Echo Box, RL-631 A Treatment of Echo Box Problems by Lograngian Procedures, Part I, RL-666 X-Rand Beocaus Reference Curities, RL-672	Slectronic Computers for Bivinion, Multiplication,
Perturbation Theory far Cacitics   Cornell   . 14-117 Special Report on Tunable Cavities   RL-143 Forced Oscillations in Cuvity Resonators. RL-188 Excitation of Cavities through Windows. RL-202 Theory of Obstacles in Resonant Covities and Wuve Guides. RL-205 The Resonant Echo Box. RL-277 Committee on Centimeter Receiving Tubes and Resonators. RL-286 A Treatment of Echo Box Prablems by Lagrangian Proceedures, Purt 1. RL-629 Theory of Ringing Time of Tunable Echo Box. RI-630 Design of an Improved X-Rund Echo Hox. RI-631 Design of an Improved X-Rund Echo Hox. RI-664 X-Rand Beacaus Reference Curities. RI-972	Squaring, etc, (VAC-4) [Cornell]. 14-435
Special Report on Tanable Cavitiva. RL-143 Forced Oncillations in Cavity Resonators. RL-188 Excitation of Cavities through Windows. RL-202 Theory of Obstacles in Resonant Covities and Wine Guides. RL-205 The Resonant Echo Box. RL-277 Committee on Centimeter Receiving Tubra and Resonators. A Treatment of Echo Box Prablems by Lagrangian Proceedures, Part I. RL-629 Theory of Ringing Time of Tunable Echo Box. I RL-630 Design of an Improved X-Band Echo Box. RL-631 A Treatment of Echo Bax Problems by Lograngian Procedures, Part II. KL-646 X-Band Becens Reference Cavities. RL-632	Mechanical Integration System Incorporating a
Forced Oscillations in Cuvity Resonators. RL-188 Excitation of Cavities through Windows. RL-202 Theory of Obstacles in Resonant Covities and Wuve Guides. RL-205 The Resonant Echo Box. RL-277 Committee on Centimeter Receiving Tubra and Resonators. RL-286 A Treatment of Echo Box Prablems by Lagrangian Procedures, Part I. RL-629 Theory of Ringing Time of Tunable Echo Box. RL-630 Design of an Improved N-Rand Echo Box. RL-631 A Treatment of Echo Box Problems by Lograngian Procedures, Part II. RL-666 X-Band Begenus Reference Curities. RL-632	Magnetic Amplifier (MA-2) [Cornell]. 14-436
Excitation of Cavities through Windows. RL-202 Theory of Obstacles in Resonant Covities and Wine Guides. RL-205 The Resonant Echo Box. RL-277 Committee on Centimeter Receiving Tubes and Resonators. RL-286 A Treatment of Echo Box Prablems by Lagrangian Procedures, Part I. RL-629 Theory of Ringing Time of Tunable Echo Box. RL-630 Design of an Improved N-Bund Echo Box. RL-631 A Treatment of Echo Bux Problems by Lagrangian Procedures, Part II. RL-666 X-Band Beacaus Reference Curities. RL-672	ise of a Specially Designed Magnetic Amplifier in
Theory of Obstacles in Resonant Covities and Wave Guides. RL-205 The Resonant Echo Box. RL-277 Committee on Centimeter Receiving Tubes and Resonators. RL-286 A Treatment of Echo Box Problems by Lagrangian Errors, Part 1. RL-629 Theory of Ringing Time of Tunable Echo Box. RI-630 Design of an Improved X-Rand Echo Box. RI-631 A Treatment of Echo Box Problems by Lograngian Procedures, Part II. RI-696 X-Band Becaus Reference Curities. RI-972	Computing Circuits [Corneil]. 14-437
Guides.  The Renonant Echo Box. RL-205 The Renonant Echo Box. RL-277 Committee on Centimeter Receiving Tubra and Resonators. RL-286 A Treatment of Echo Box Prablems by Lagrangian Procedures, Part I. RL-629 Theory of Ringing Time of Tunable Echo Box. RL-630 Design of an Improved N-Rund Echo Hox. RL-631 A Treatment of Echo Box Problems by Lograngina Procedures, Part II. KL-696 X-Band Beccans Reference Curities. RL-872	Performance and Stability of Triggered Gates.
Committee on Centimeter Receiving Tubra and Resonators.  RL-286  A Treatment of Echo Box Prablems by Lagrangian Procedures, Part I.  RL-629  Theory of Ringing Time of Tunable Echo Box. RL-630  Design of an Improved N-Rand Echo Box. RL-631  A Treatment of Echo Box Problems by Lograngian Procedures, Part II.  RL-696  X-Band Becenus Reference Curities. RL-972	[Rensselacr Polytech.]. 14-445
nators.  A Treatment of Echo Box Prablems by Lagrangian E Procedures, Part I.  Theory of Ringing Time of Tunable Echo Box. I RI-630  Design of an Improved X-Rand Echo Box. RI-631 I A Treatment of Echo Box Problems by Lograngian Procedures, Part II.  X-Band Beacaus Reference Curities. RI-636	O. C. Resolvera (DCR-2)   Cornell  . 14-512
A Treatment of Echo Box Problems by Lagrangian Procedures, Part I. RL-629 Theory of Ringing Time of Tunable Echo Box. RL-630 Design of an Improved X-Rand Echo Box. RL-631 A Treatment of Echo Box Problems by Lograngian Procedures, Part II. RL-696 X-Band Becenus Reference Curities. RL-972	1. C. Potential Equalizers and Phase Sensitive De-
Procedures, Part I.  Theory of Ringing Time of Tunable Echo Rox. RI-630  Design of an Improved X-Rand Echo Rox. RL-631  A Treatment of Echo Box Problems by Lograngino Procedures, Part II. RI-696  X-Rand Beacous Reference Curities. RI-972	tectors (ACE-2) [Cornell]. 14-513
Theory of Ringing Time of Tunable Echo Box. R1-630  Design of an Improved N-Rand Echo Box. R1-631  A Treatment of Echo Box Problems by Lograngino Procedures, Part II.  N-Band Beacaus Reference Curities. R1-972	Sectronic Computers for Division, Multiplication,
Design of an Improved X-Rand Echo Hox. RL-630  A Treatment of Echo Bax Problems by Loguragino Procedures, Part II.  KI-696  X-Band Beceaus Reference Curities. RL-872	ete., Some Additional Remarks [Cornell]. 14-538
Design of an Improved X-Rand Echo Rox. RL-631  A Treatment of Echo Box Problems by Logaringino Procedures, Part II. RL-696  X-Band Becomes Reference Curities. RL-972	uvestigotion of Circuits of Use in Precision Rudar
A Treatment of Echo Bux Problems by Logaragino Procedures, Part II. RL-696 X-Band Becenus Reference Curities. RL-972	Computers, Final Report   Cornell . 14-546
Procedures, Part II.  X-Band Becoms Reference Curities.  RL-696 RI972	Development of High-Frequency Video Amplifier
X-Band Beacans Reference Curities. RL-972 E.	ond Rudur Runging System, Final Report [U. of
7	Pa.]. 14-571
V. Rand Scaled Standard Capities DI S 70	Brocon Discrimination Circuit. RL-29
	hyratron Sereo Control Circuit for Spinners. RL-31
General Lecture Series on Rudar Components.	pecial Report on Buffered Multiple Phase Box.
RL-T-18	RL-44
HEMISTRY, see Absorbent Materials, Crystals, and	natuaction Manual Browning Type A Synchranizer.
157.1	RL-74
	F. Amplifier Design, RL-112 Statistics of Circuit Noise, RL-192
	tolistics of Circuit Noise. RL-192 Indysis of Ituguetron Performance, Part I, Equiva-
IRCUIT ELEMENTS	lent Circuit, Method, Applications. RL-229
Mrchanical Vacuum Switches, Transmission Line and RC Pulsing Circuits [U. of Cal.]. 14-156	mpulse and Square-Pulse Response of Various Fil-
Preliminary Results on Calibration of Autotrans-	recision Timiny Catibrator and Rauge Measuring
Measurement und Design of D. C. Resonant Charg-	System. RL-319 recision Delay Multivibrator for Ruoge Measure-
ing Chokes. RL-215	ment. RL-320
High-Frequency Characteristics of Resistors, R1,-520 Moisture-Proofing of Button Mica Capacitors,	ledium Precision Self-Synchronous Range Circuit Model 4. RL-321
RL-790 C	Treular Sweep Precision Range System Model 4.
RCUITS AND NETWORKS	RL-322
	Icdium Precision Self-Synchranous Antomatic
Oscillator [U. of Colo.]. 14-98	Runge-Trucking Circuit. RL-323
	hotoelectric Automatic Range-Tracking Unit.
Gates, Progress Report No. 1, Jan. 6, 1943. [Rens-	
	RL-324 implified Circular-Sweep Range System. RL-325

CIRCUITS AND NETWORKS (Continued) Hand Radar Ranging Circuit, RI327	Circuits and Networks (Continued)  An Extension of Lagrange's Equations to Electro-
Antiniveraft Artillery Board Test on the Simulified	unguetic Field Problems, Equivalent Networks.
Errors in Circular Sweeps Due to Decentering und	RL-626 Errors in the Condensor Type Continuous-Phase
Ellipticity of the Circle. RL-328	Shifter, R1,-633
Frequency Division with Blocking Oscillator Pulse	Realizability of Filters. RL-637
Transformers. RL-329	H-3 Trigger Unit. RL-645-3
Line Controlled Blocking Oscillator Murker Gen-	The I-3 Signal Unit. RL-645-4
erator (ARO) Calibrator, RL-330	The H-2 Trigger Unit. RL-645-6
ARO Runge Follow-up Unit. RL-331	I-2 Signal Unit. RL-645-7
ARO Runge Unit. RL-332	A Microwave Frequency Discriminator. RL-662
Model II Calibrator. RL-333	A Fredbuck Circuit for Measuring Output Noise
A Voltage Compensated Delay Multivibrotor, RL-334	Rutio of Crystal Rectifiers. RL-667
Externally Triggered Circular-Sweep Amplifiers.	Colloquinm on Pulse-Forming Networks, October 12,
RL-335	1944. RL-692
Delayed Sweep for SCR-582-X. RL-337	Calculation of Pulse-Furming Networks Having Slow
An Adaptation of the Phantastron Delay Multivibra-	Rutes of Voltage Rise. RL-698
tor Circuit to the 6SA7 Tube. RL-338	Nonlinear Networks as Vultage Regulators. RL-711
A Condenser Phase Shifter Runge Circuit with Sine	Notes on Load Effects in Reflex Oscillators. RL-717
Wace Tracking Suitable for Micrownes Height-	A Theory of a Supersonic Delay Line. RL-733
Finding Stations, RL-339	Equivalent Network for the 242-HW Pulse Trans-
Resistance-Capacitance Networks, RL-379	furmer Bused on the Method of Virtual Displace-
A Note on Pulse Distortion by Rejection Filters.	ments. RI734
RL-422	The Use of a Twin-T Network in a Selective-Fre-
A Onc-Tube, One-Sulsyn Sector-Sennuer. RL-448 Differential to Single Knded Potential Converters.	quency Amplifor with Special Applications,
RL-457	RL-737
A Cathode Follower Employing Two Tubes to Ob-	A Wide-Kecursian Frequency-Modulated Alignment
tain Extremely Low Output Resistance. RL-469	Oscillatur or Wobhulator. RL-738 Interference Blanker. RL-749
Overinterrogation Control of Microwave Beacons.	Interference Blunker, RL-749 The Double-Tuned Circuit with Transitional Con-
RL-477	pling. RL-784
Remote-Position Control by Direct Frequency Varia-	Electrical and Physical Characteristics of Some Com-
tion. RL-482	mercial Feed-Through Filters. RL-785
The Two-Disc D-C Thermistor Bridge Circuit.	Multiple Reflection Delay Tunk, RL-791
RL-502	On the Theory and Performance of Liquid-Delay
A Method for Relay Radar PPI Synchronization.	Lines. RL-792
RL-505	Pulsed Quartz-Crystal Oscillator, RL-803
Pulse-Length Discrimination in Bencous. RL-510	Parallel T Stabilizing Networks for AC Servos.
Proposed Method for Measuring Instantaneous Mag-	RL-811
netron Input Impedance with the Aid of a Delay	Analysis of a Hulf-Wove Rectifier Circuit Involving
Network. RL-515	Inductunce, Resistance, and Capacitance. RL-867
Voltage Pulse Rate-of-Rise Measurements. RL-523	Pulse-Furming Network Committee, Proposed Busic
Thyrite Bridge Controlled Voltage Regulator, RL-525	Specifications for Polse-Forming Networks.
Stogger-Damped Double-Tuned Circuits. RI539	RI883
Frequency Division with Blocking Oscillators, Part 1.	The Effect of Small Changes in Circuit Parameters
RL-544	un the Solution of Network Problems. RL-1063
The Kenlautina of an Equivolent Circuit for a Pulse	Theory of Operation of AKW Circuits. RL-M-201
Transformer. RL-545	Rectifier Filter Circuit Analysis. RL-T-3
Equalized Delay Lines. RL-550	Rectifier Filter Circuit Annlysis, Supplement.
A 60-Mc Parallel Schering Bridge. RL-558	RIT-12
Nº Gute Attuchment for SCR-584. RL-566	CLOSE CONTROL AND CLOSE SUPPORT, see also Ground
7	Radar and Airborne Rudar
Muteking Resistance Curves by Meons of Two Linear Gangud Potentiometers and a Three-Terminal Re-	Tactical Devices Based on Superposition of a Plot-
sistance Network. RL-610	ting Bourd on the PPI Pattern. RL-387
	The SCR-584 Plotting Tuble System. RL-595
Effects of Line and Cathode-Follower Terminations on Pulse Shape RL-616	Close Cooperation Hombing. RL-750
on Pulse Shape, RL-616 A Method of Virtual Displacements for Klectrical	Interference Between SCR-584's Tracking APN-19
Systems with Applications to Pulse Transformers.	Beacons, RL-816
RL-618	X-Baud Sen-Return Measurements. RL-870

CLIBE CANTROL AND CLOSK SUPPORT (Continued)  Preliminary Instructions on Modification Eit MC-627 for Radio Set SCR-583, RL-M-220 Preliminary Instructions on Modification Rit MC-627 for Radio Set SCR-584 (Revioud). RL-M-220 AN/CPA-7 Operations Room Equipment Supplementing Radio Set AN/CPS-1. RL-M-228 MEW Close Control. RL-8-76 CLUTTER, occ also Moving Target Indication The Detection of Moving Targets among Ground Clutter by Coherent Pulse Methods, RL-480 Testo of Beacon Receiver on V-Beasa, RL-522 Rlimination of Ground Clutter. RL-526 A Moving Target Selecter Using Deflection Madulation on a Storage Monaie, RL-562 The Rifect of Clutter Fluctuations on MTI. RL-700 Sca-Return Rifects and Their Elimination in the AN/APS-6, R1-707 MTI for MRW, R1-752 A Theoretical and Experimental Study of Radar Ground Return, Flight Tests on AN/APS-6A, RL-8-25 Anti-Clutter Circuits for ARW, RL-8-52 COMMATION CENTER [CIC] see Fire Captrol	Computing Devices and Methods (Conlined) Theoretical Calculution on Rest Smoothing of Pacilion Data for Gauncy Prediction.  Nonagramo for Computation of Modified Index of Refraction.  RL-551 An H+H Import Predicting Computer Assuming Countant Indicated Airspeed for Uoo with AN/APS-15A Ruitar.  Erroro in Target Velocity Due to the Rolling and Pitching of the Ship.  Nonagramo far Radar Bombing with the 100-Lb Practice Bouch M3NA2.  RL-612 Tests on the Performance of the Mk 1-Mod 7 Computer.  GPI for Clase-Control Hombing.  Ground Course Computer for AN/APQ-T1.  AN/APG-13B Valtace Rockel Computer.  Computer Mark 14 AN/APA-30 XN-1 Instruction Manual.  RL-M-179 Hygraph Instruction Manual.  RL-M-230 Grand Position Indicator far Radar Navigation and Rombing.  Alignment Eit (Torpudo Rack) Mark 1 Mod 6,  RL-S-42
Communication (except for Systems), see also Relay	CONTINUOUS WAVE RADAR
Radar	Elimination of Ground Clutter. RL-526
Rudiotelephono Communication on 3,000 Megacyeles	An Electronic Modulator for CW Magnetrons.
Washington State College , 14-152	RL-748
Report of Radio Relaying of Radur Signals [RCA].	General Theory of Kleetronic Beam Modulators,
14-243	RL-758
A Duplex Communication System for Microwaves, RL-830	CORNER REFLECTORS
Hondhook of Maintenance Instructions for AN/AIC-	Application of Corner Reflectors to Rudor (Theo-
6 Intercommunication System. RL-M-244	retical). RL-203
	Application of Corner Reflectors to Rudar (Experi-
COMPUTING DEVICES AND METHODS	menial), RL-280
Courdinate Transformation Circuits Using Recolvers	Corner Reflector Tests at Langley Field. RL-402
and Coordinate Transformation by Meuns of Klee-	Optical Theory of the Corner Reflector, RL-433
trical Networks [Bartol], 14-288 Арукстин for the Transformation of Rectangular	Observations of Life Rafts Equipped with Corner Reflectors, Feb. 15, 1944. RL-533
Coordinates Using Armaresolvers [Bartol], 14-293	Corner Reflectors for Lift Rufts, Aug. 1, 1944.
Device for Determination of the Vertical by Means	RL-608
of Cosmic Rays [Cornell]. 14-363	Design of a 4-Foot Corner Reflector for K-Band.
Special Mechanical Counter for the Mark III or	RL-042
Phase-Shift Locan Indicator  Int. Business Ma-	Rotating Corner Reflectors for Ship Identification,
chines Corp.], 14-368	RL-654
Riceteonic Computers for Division, Multiplication,	Corner-Reflector Modulation of Airplane Signals.
Squaring, etc., (VAC-4) [Cornell]. 14-435	RL-913
A Mechanical Integrating System Incorporating a	A Proposed Design for MX-180/A Corner Reflector
Magnetic Amplifier (MA-2) [Cornell]. 14-436 Use of a Specially Designed Magnetic Amplifier in	(Fluit Marker, Radar, Droppable). RL-S-39
Computing Circuits [Cornell], 14-437	Countermrasures, Jamming, anti-jamming, camou-
Electronic Computers for Division, Multiplication,	flage, etc.
etc., Some Additional Remarks [Cornell]. 14-538	Plun Position Indicator far 584 AJ. RL-678
Investigation of Circuits of Use in Precision Radur	Synthetic Radar Echoes in the Presence of Jamming.
Computers, Final Report [Cornell]. 14-546	RL-708
Rodur Trainer Equation-Solvers for the Relative	Radur Crimonflage. RL-766
Motion of Two Moving Objects in Space. RL-436	Pulsed-Interference Suppression. RL-820
The Range Calculator. RL-497	S-Itand Tunable Systems. RL-911
	Company of the Compan
CONFID	ENTIAL

Countermeasures (Continued)	CRYSTALS (Continued)
Some General Microwave Anti-Jam Deciya Considera tions and Performance of a Special Receiver,	Recent Research un Silicon Rectifiers [U. of Ps.].
RL-S- Detection of Propeller and Sumbo Modulations.	
RL-S-1	The Theory of Crustal Misers in Torms of Mone.
Window Tents on AN/CPS-6, Leesburg, Florida, Jun 7 and 9, 1944. RL-S.2	Tropp
7 and 9, 1944. RL-S-2	The state of the s
CRYSTALS	N. Band Video Crystals [U. of Pa.]. 14-274
Detector and Miser Crystals	Production and Effects of a Depletion Layer in Doped Silicon [U. of Pa.]. 14-282
The Principles of Crystal Rectifiers [U. of Pa.]. 14-10	Bigh Frequency Charneteristics of Rectifiers   Pur-
The Electrical Conductivity of Silicon and Ger manium [U. of Pv.].	Theory of Small Deviations from I'nre Diode Be-
DC Burn-Out Temperature in Silicon Rectifier	Temperature Variation of Low Level Crystal Per-
[U. of Pa.]. 14-11 Investigation of Crystal Rectifier DC Character	
intics [Furdue]. 14-11	5 [U. of Pa.]. 14-311
Further DC Burn-Out Experiments on Silicon un	
Germanium Rectifiers [U. of Pa.], 14-11	
Electron Microscopy of Tunysten Points [U. o	
Pu.]. 14-12 Noise in Crystal Rectifiers [U. of Fa.]. 14-12	
The Diffusion Theary of Crystal Rectifiers [Fur	
due   . 14-12	
Theory of Noise in Conductors, Semi-Cambactors	
and Crystal Rectifiers   Purdue  . 14-13	
Barrier Capacity in Silicon Carteidye Rectifier	
[U. of Pa.], 14-14	
Determination of Lagarithmic Constants of Crysto Rectifiers with the Oscillascope [Purdue], 14-14	
Mensurement of Conversion Gain with a Modulate	
Oscillatur   Purdue  . 14-14	
High-Frequency Rectification Efficiency of Crystal	
[U. of Pa.]. 14-15	Test Equipment for Germanium Second Detector
Theory of Signal to Naine Ratio of Crystal Mixer	
Cornell . 14-16	
Capacity in Crystal Rectifiers [U. of Pa.]. 14-16	
Crystal Naise as a Function of DC Itias and 30-M	
Impedance Measured with a Diode Noise Source [Purdue]. 14-16	
Theory of Contact Rectifiers [Purdue]. 14-16	
Ionization of Dunntur Levels in Crystal Rectifier	
by Thermal Agitation [U. of Pa.]. 14-17	
Effect of Tapping an Barrier Cupacity   U. of Pa. 14-18	. Prayerties of Germanium High-Back Voltage Recti-
Behavior of Silicon Crystols at Law Level Pawer	
[U. of Pa.]. 14-18	
Behavior of Westinghouse Silicon as a Low Levi	due]. 14-410
Detector  U. of Pa. . 14-18	
Nnise in Silicon Rectifiers at Low Temperature [U. of Fu.], 14-18	9 Burnant of X-Band Video Crystals [U, of Pa.].
Dependence of IF Impedence and Noise Tempere	
ture of Crystal Restifiers on Mutching Condition	8 Germanium Crystal Rectifier for Radar Receivers
[U. of Fn.]. 14-19	ne an enter transfer t
Comparison of Wedys and Cone Contacts on Fo	
Silicon [U. of Pa.]. 14-19	
A Device for the Selection and Manufacture of	

RYSTALS (Continued)	CRYSTALE (Continued)
Hamly Guide to Crystal Types, HI [U. of Pa.].	A Simple Method for Determination of the Law of a Crystal, RL-270
Development Remorek on X Band Video Crystals [U. of Pa.]. 14-591	Committee on Centimeter Receiving Tuben and Resonutors. RL-286
Double Valued Churacteristics of Crystal Rectifiers,	Theory of Rudar Mixers. RL-287
Comments [U. of Pa.]. 14-504	Noise Meomrements on Microwave Converters. RL-289
Temperature Effects of S Hand Video Crystals [U. of Pa.]. 14-505	Theory of Noise Measurements on Crystals as Fre quency Converters. RL-293
Tenth on German Crystals [U. of Pa.]. 14-559	Use of the Temperature-Limited Diode in Mene
Burnout Life Tests of X Band Vides Crystals [U. of Pr.]. 14-560	nrements of Nulse Figures of Crystals. RL-20 Notes on Measurement of Noise, Gain and Noise
Une of Different Fillers in Crystal Rectifiern [U. of Pa.]. 14-561	Figure of Converters. RL-29: Noise Temperature Memouring Apparatus for
Ruseoreh Development of Crystal Rentifiers, Final	Crystals as 10,000 to 30 Megacycle Converters
Report [U. of Pa.], 14-562	RL-296
Geometrical Structure of Silicon Surfaces [U. of Pa.]. 14-563	Low-Level Crystal Detectors. RL-23"
Pa.]. 14-563  Burnant of S Band Video Crystals   U. of Pa.  .	A Reciprocity Theorem and Its Application to Mens-
14-564 Production and Performance of Germanium High	urement of Gain of Microwave Crystal Mixers RL-300
Hack Voltage High Buck Resistance Crystal Rectiforn [Purdue]. 14-577	Muximum Power Limitations of Silicon Crystolu RL-356
Dependence of Noise Temperature DC and IF	Comparison of the Usual Methids of Mensuring
Crystat Conductance on Matching Conditions	Conversion Lons of Crystals and a New Empiri-
[Purdue]. 14-578	ent Method. RL-408
Temperature Depembence of High Voltage Ger-	Lane Level Crystal Detectors, Effect of Heat and Cold. RL-440
munium Rectifier DC Churacteristics [Purdue].	Report on K-Hund Work in U. S. A. RL-475
14-579	Operation of IN23 Crystal Rectifiers. RL-496
Photoelectric Effects in Germanium [Purdue].	Manufacturing Procedure for the Rudiotion
14-580 Dependence of Forumed Combinetance and Bock Re-	Laborutary High Burn-Out Crystals. RL-501
nishance of High Buck Voltage Germanium on	Crystal Life Tusta under Flat Pulses. RL-543
Voltage and Frequency [Purdue]. 11-581	A Broad-Band Balanced Mixer for S-Band. RL-916 Performance of Microwave Harmonic Mixern.
Rudar Tube Model Shop, Final Report  Sylvania].	RL-958
14-582	Crystal Detectors and the Crystal-Video Receiver.
Crystal Canacity on a Function of Ross and Its	RL-638
Relution to the Theory of Crystal Rectification	1B38 Pre-TR. RL-041
[Purdue]. 14-584 Final Report on Crystal Development for Roduc	A Feedback Circuit for Measuring Output Noise
Receivers [Purdue], 14-585	Ratio of Crystul Rectifiers. RL-667 A Conversion Loss Set for Testing K-Bond Crystal
Special Report on Computative Signal Noise Mea-	Rectifiers. RL-668
nurements on Crystal Mixers and Grounded Grid	The Generation of Harmonies by Silicon and Ger-
Tuhe Mixers RL-110	munium Crystals. RL-818
Report of the Radin Frequency Section. RL-140	1N23 Loss Mennuring Set Type 7368, RL-M-171
Crystols, RL-153	1N21 Loss Tester Type 7556, RL-M-177 1N23 Noise Moussiring Set Type 7438. RL-M-190
Theory of High-Frequency Erstification by Silicon Crystal. RL-184	IN21 Noise Tenter Type 11044. RL-M-191
Theory of the Boumbery Layer of Crystal Recti- fiers, RL-185	Gemeral Lecture Series on Radar Components. RL-T-18
An S-Bund Crystal Mixer, RL-242	Material Development
A Simplified Analysis of Conversion Loss of Crystal Converters. R1253	Compounds of Siliesu and Gremunium [U. of Pa.]. 14-112
Pre-Ignition Transmission through Gus-Switching	Spectroscupic Determination of Aluminum in Sili-
Tubes and Ita Contribution to Crystal Fuilures.	eon [U. of Pa.]. 14-127
Testing of INSI Name Counted Besties IN 1856	Effect of Etch on Crystal Rectifiers. [U. of Pa.].
Testing of 1N21 Nuvy Crystal Rectifiers. R1,-256 Conversion Loss Measuring Apparatus for Crystaln	14-165
in the 3-Cm Bund. RL-257	Endio-Active Detection of Aluminum in Silicon [U. of Pa.].

CRYSTALS (Continued) Analysis of Silicon for Nan-Volatile Matter 1U, of Pu.l. 14-204 Sintering or Melting of Boron Powder, Progress Report, Nov. 1, 1943 |du Pont]. 14-229 Sintered Boron Project, Progress Report, Dec. 1, 1943 |du Pont]. 14-231 Sintered Boron Project, Progress Report, Jan. 1. 1944 [du Pont]. 14-232 Sintering and Melting of Boron Powder, Progress Report, Feb. 1, 1944 [du Pont], 14-240 Progress Report on the Sintering and Melting of Horon, Mar. 1, 1944 |du Pont |. 14-252Progress Report on Sintering and Melting of Boron Fouder, Apr. 1, 1944 |du Fant |. I4-262 Pragress Report on Sintering or Melting of Baron, May I, 1944 |du Pont|. 14-272 Progress Report on Sintering or Melting of Boron Pander, June 1, 1944 |du Pant]. 14-283 Quantitutive Spectroscopic Analysis of Impurities in Germanium and Silicon [Purdue]. 14-285 Sintering or Melting of Baran Powder, Progress Report, July 1, 1944 |du Pont |. 14-292 Effect of Heat Treatment on Low Level Perfuraance [U. of Pa.]. 14-304 Progress Report on Sintering or Melting of Buron Powder, Aug. 1, 1944 |du Font|. 14-307 Sintering or Melting of Boron and Preparation of Hgper-Pure Germanium, Progress Report, Sept. 1, 1944 [du Font], 14-318 Sintering or Melting of Buran and Preparation of Hyper-Pure Germanium, Pragress Report, Oct. 1, 1944 |du Pont |. 14-324 Evaporated Films of Germanian and Silican |U. of Pa.l. 14-337 Statering or Melting of Buran and Frequentian of Hyper-Pure Germaniam, Frageess Report, Nov. 1, I944 |du Pont]. Final Report, Part I-Sintering and Melting of Boron, Part II-Preparation of Hyperpare Germaniam |du Pont|. Heat Trentment of Germanium Rectifier Materials, Interior Report No. 4, Aug. 3, 1945 [BTL]. Preparation of High Back Voltage Germanium Rectifiers [BTL], 14-555 Mass Succtrometer Incestigation of the Silicon Tetrachlaride Uned in Making Pure Silieun | U. Further Developments in the Preparation and Heat Treatment of Germaniam Allays [Furdue]. 14-576 Supernonie Crystals, see also Trainers

General Dynamical Considerations Applied to Piezo-Kleetric Oscillations of a Quartz Crystal in an Kleetrical Circuit [Bartal]. 14-271 Supplement to General Dynamical Considerations

Applied to Piezo-Electric Oscillations of n Quartz Crystal in an Electrical Circuit [Baxtol]. 14-271S General Dynamical Considerations Applied to CRYSTALS (Cantinued)

Pieza-Riectric Oscillutions of a Quartz Crystal in Riectrical Circuit, Supplement It [Burtol]. 14-5h7 The R-1 and R-2 Crystal Drivers. RL-045-8 Specifications for 15-Me Supersonic Crystal for Crystal Cartridges Types 3 and 7B. RL-S-35 Timer Crystals, see also Circuits and Networks

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1, 1943 [Bartol]. I4-145
Crystal Clock Project and 10-Ke Oscillator, Progress Report, Aug. 1, 1943 [Bartol]. 14-175
Crystal Clock Project and 10-Ke L-C Oscillator,
Progress Report, Oct. 1, 1943 [Bartol]. 14-193
Crystal Clack Project and 10-Ke L-C Oscillator,
Final Report, Jun. 1, 1944 [Bartol]. 14-226
Palwal Quartz-Crystal Oscillator. RL-803

DATA TRANSMISSION, see Remote Indication and Control Systems, Communication, and Relay Radar

DELAY LINES, see Circuits and Networks

DESCRICES, see also Absorbent Materials

Progress Report an Ultra-High Frequency Dielectries, OSRD 1197, LIR Report I, Jan., 1943 [M17]. 14-121

The Interaction Between Ricetcomagnetic Fields and Dielectric Materials, OSRD 1198, LIR Report II [MIT]. 14-122

Measurement of Dielectric Constant and Loss with Standing Waves in Coaxial Waveyaides, LIR Report III [MIT]. 14-142

Auxiliary Equipment for the M.I.T. Coax Instrument and Its Use, LIR Report IV [MIT]. 14-210 Table of Dielectric Materials, Volume I, LIR Report

V [MIT]. 14-237 The Fulystyrene Planties un High-Frequency Dielectries LIR Report VI [MIT]. 14-270

High Dielectric Constant Ceramics, LIR Report VII [MIT], 14-300

Tuble of Dielectric Muterials, Volume II, LIR Report VIII [MIT]. 14-425 Techniques and Calculations Used in Dielectric Meas-

urements on Shorted Lines LIR Report 1X [MIT].

14-490
Law Thermal Expansion Plastics, LIR Report X

| Law Thermal Expansion Plastics, LIR Report X | MIT]. 14-539 | Titania Ceramics II, LIR Report XI | MIT]. 14-540

Design of Equipment for Measurement of Dielectrio Constant and Lass with Stunding Waves in Waveguides, LIR Report XII [MIT]. 14-541

An Apparatus for Determining Heat Distortion Characteristics of Plastics, LIR Report XIII [MIT]. 14-542

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Theory of a "Black Body" Produced by a Combination of a Thin Sercen and a Perfect Mirror. RL-148 Theory of a "Black Body" Produced by a Combination of a Thin Sercen and n Perfect Mirror, Supplement to RL-148.

Dielectrics (Continued)	EARLY-WARNING EQUIPMENT (Continued)
A Method to Mensure High-Frequency Permeability	Airborns Early-Warning Search Antennu. RL-779
of a Ferromagnetic Budy. RL-155	The AEW System, Book I, Airborne Equipment.
Transmission through Dielectric. RL-113	RL-806-1
Microwave Transmission. RL-121	Instruction Manual for Model 6-B (MEW) Mudulu-
Special Report on the Reflection of Plane Waves by	tor. RL-M-139
Mugnetic Substances. RL-146	MEW No. I Preliminary Instruction Book.
Propagation in Waveguiden Partly Filled with Di-	RL-M-156A
gleetrie, RL-174	MEW No. 2 Preliminary Instruction Book.
Dielectric Transmissium Measurement. RL-244	RL-M-156B
Corrosion of Copper, Brass, and Aluminum by Gase-	MEW No. 3 Preliminary Instruction Book.
ons Dielectries, RL-248	RL-M-156C
Radome Bulletin Number 4, Transmission and Re-	Instruction Hundhook for Rudar Set AN/CPS-1A
flection of Single Plane Sheets. RL-483-4	(Pre-production Sets). RL-M-156D
Radowe Bulletin Number 5, Recent Dielectric Con-	Preliminary Technical Munual for AEW, RL-M-180A
stant and Loss Tangent Measurements. RL-483-5	Preliminary Installation and Operating Instructions
Radome Bulletin Number 7, The Mensurement of	fur Radar Set AN/CPS-6. RL-M-196
High Reflections at Low Power, RL-483-7	AN/CPA-7 Operations Room Equipment Supplement-
Radame Bulletin Number 10, The Measurement of	ing Radia Set AN/CPS-1. RL-M-228
Small Keflections. RL-483-10	AEW, Airborne Early Warning. RL-S-26
Rodome Bulletin Number 12, Transmission and Re-	AEW, Airbarne Eurly Warning (RL-S-26 plus addi-
firstion of Parallel Plane Sheets. RL-483-12	tional material). RL-S-27
Radome Bulletin Number 15, The Mensurement of	JEW Bedford Trials. RL-S-32
Dielvetrie Countants in the One-Centimeter Bund.	Tuction Use of Delayed PPI Scopes of the AEW
RL-483-15	System, RL-S-36
Radame Bulletin Number 17, Current Prayress on	I'reliminury Report on Single Aircraft Target
R-F Research. R1-483-17	Runges of AEW. RL-S-37
Rodome Bulletin Number 18, Dielectric Constant and	AEW Tactical Tests at Brigontine. RL-S-50
Loss Tunnent Computation. RL-483-19	
Dielectric Windows in Wovegnide. R1-587	Echo Boxes, see Test Equipment, Cavities
Divicetric Properties of Water and Ice at K-Band.	ELECTRUMAGNETIC THEORY, see Theory
R1-644	ENEMY EQUIPMENT
Waveguides Without Metal Walls. RL-726	Japanese Microwave Rudur. RL-S-24
Dielectric Phase Shifters for Waveguide. RL-788	ENGINEERING AND SPECIFICATIONS
Diones, see Tubes	Corrosion of Cupper, Bruss and Aluminum by Guse-
DIRECTORS, see ulso Computing Devices and Methods,	ann Dielectrien. RL-248
Fire Control	Temperature Rise in Anti-TR Racks (S. P. Hunt).
Accuracy Criteria for the Gun Director Mk 56.	RL-281
RL-578	Specifications of Performance Tests for PPI Sinu-
Errors in Target Velocity Due to the Rolling and	suidal Potentiometers Types RL10E and RL14.
Pitching of the Ship. RL-612	RL-816
MTB Computing Rudor Sight, RL-S-14	Vibration and Shock Comparison Tests of 7-In. Cath-
Alignment Kit (Torpedo Ruck) Mark I Mod 0.	ode-Ruy Tubes in Two Different Type Mounts.
RI-S-42	RL-390
Tobles for Use with Torpedo Director Mark 33-1,	Sinusoidal Potentiometers Type RL10CB, RL10CD,
RL-S-60	RL10E, and RL14. RL-423
Torpedo Director Mark 38 Mad 1. RL-S-63	Lighthouse Tube Transmitter-Receiver LHTR Mk 1.
Mark 151 Director. RL-S-75	RL-429
Dupples, see Clutter, Moving Target Indication	The Cauding of Pressure-Tight Containers. RL-462
EARLY-WARNING EQUIPMENT, see olso Airborne, Ground,	Antenna Ports and Measuring Equipment. RL-472
and Shipborne Radar	Manufacturing Procedure for the Radiation Labora-
Brief Description of MEW Microwave Early Warn-	tory High Burn-out Crystals. RL-501
ing. R1428	Pulse Transformers Designed at Radiation Labora-
Florida Trete on ROSEBUPS against SCR-582, SCR-	tury and Produced by General Electric Company
615, MEW. RL-596	and Westinghouse Electric and Manufacturing
Over-Water Tests of S-Band Early Warning for	Compuny. RL-513
Ships, Vertical Coverage of the CNHR (SCI)	Relay Data Including Shock and Vibration Measure-
Sourch System. RL-703	nicula. RL-747
Flight Tests of AEW Block III Relay Link. RL-739	Specifications for 15-Me Supersonic Crystal for
MTI for MEW. RL-752	Crystal Cartridges Types 2 and 7B. RL-35
**************************************	wigorat warringen appen o tenti (15. KL-30

Billion Systems, see also Computing Devices and Methods, Directors, Tracking Computers for Radar Control of Plane-to-Plane Garafice for Mater Control of Plane-to-Plane Garafice for Material Condition of ANTEG-1, ANTEG-1, SCR-598, Developmental Seasonst Gaolagiag Radar Sets. Development and Construction of a Local Turcet Gyro Lead-Computing Sight for AGS Radar [GR].  The Sperry Stabilized Aircraft Ganlagiag System (AGL-2), Intermediate Plane [Sperry]. 1-289 Final Technical Report on AGI-1 Development [GR].  Motor Torpedo Roat (M.T.B.) Camputing Radar Sight for Illiad, Soud-Illian nod Plane Frie Sperry. 1-4895  Motor Torpedo Roat (M.T.B.) Camputing Radar Sight for Illiad, Soud-Illian nod Plane Frie Sperry. 1-4895  Motor Torpedo Roat (M.T.B.) Camputing Radar Sight for Illiad, Soud-Illian nod Plane Frie Sperry. 1-4895  Motor Torpedo Roat (M.T.B.) Camputing Radar Ships (Report of Radar Station Camputer—Part I, Plane Report [GR]. 14-392  The Fairchild So Caliber B2 Camputer and AGS Adaptations for an Exercisin Turcet, Part II, Final Report [GR]. 14-392  Development and Production Samphes of AIC Series (AN/APG-5 and AN/APG-5 Radar Equipment (GR]. 14-599  Monuscariet Hamibook of Maintenance Instructions for Rodin Sets AN/APG-5 and AN/APG-5 [Gast-vin]. 14-599  Monuscariet Hamibook of Maintenance Instructions for Modifying the SCR-584 Modulator (GR). 14-152  Monuscariet Illian Seculus Price-Control Computer (GR). 14-59  Monuscariet Illian Seculus Price-Con		THE RESIDENCE OF THE PROPERTY
Pass Control. Strituss, see also Computing Devices and Methods, Directors, Tracking Computers for Radar Control of Plane-to-Plane Gran- fice [MIT] Two Motor-Driven Gan Twerte [GR]. Two Motor-Driven Gan Twerte [GR]. The Motor-Driven Gan Twerte [GR]. The Sperry Stabilized Allerent Gandaging May Sets. (AGL-2), Intermediate Plane [Sperry]. Id-239 Final Technical Report on AGL-1 Development [GR]. Motor Terpedo Boat (MT.R.) Computing Hadar Sight for Blind, Scati-Blind and Finant Pair Brivelid Control Statem Computer Pair I. The Pair-bild So Cather MI Computer May 14. Development of Gan Fire Control System Mark 26, Final Report [GR]. Pair Report [GR]. Intermediate Plane [Sperry]. Intermediate		FIRE-CUNTROL SYSTEMS (Continued)
Piese Construct. Systems, see also Computing Devices and Methods, Directors, Tracking Computers for Radar Control of Plane-to-Plane Garsfee [MIT]. 11-130   Fow Motor-Dirice Gan Tayrets [GR]. 14-230   Development and Construction of a Local Tayrets [Grown of Markets of Mark	210-1-20	Amplidyne Servo for SCR-498 Surface Fire-Control
Methods, Directors, Tracking Computers for Radar Coutst of Phase-to-Plane Gas- fice [MIT].  Two Motor-Deicen Gan Tarrets [GR].  The Sperry Stabilized Aircraft Gualagiag System (AGL-2), Intermediate Phase [Sperry].  Motor Torpedo Boot (M.T.R.) Camputing Radar Sight for Blind, Scati-Blind and Yiman Fire [Sperry].  14-385  Motor Torpedo Boot (M.T.R.) Camputing Radar Sight for Blind, Scati-Blind and Yiman Fire [Sperry].  14-392  The Folichid Centeral Station Camputer—Part I, The Patrichid So Cather BL Camputer and AGS Adpe- tations for an Euerson Tail Tarret, Part II, Final Report [GR].  Development of Gan Fire Control System Mark 26, Final Report [GR].  Problemant of Gan Fire Control System Mark 26, Final Report [GR].  Monorerial Bamblook of Maintenance Instructions for Radia Sets AN/APG-3 and AN/APG-3 [Cal- vial.  Development and Production Samples of APG Series (AN/APG-3 and AN/APG-3 and AN/APG-3 [Cal- vial.  Development of Gan Fire Control Computer [GR].  Development of Gan Fire Control System Mark 56, Final Report [GR].  Report [GR].  Problemancy Instruction Manual for AN/APG-3, [Cal- vial.  Monorery (Mark 2), 1941.  Report of Problems and Activities of Group G High-Power Ground Equipment, RL-375 Report on Freinding Maintenance Instructions for Boddyling the SCR-584 Modelator  RL-375 Report on Freinding Maintenance Instructions for Woldyling the SCR-584 Modelator  RL-376 Report on Freinding Maintenance Instruction for the AN/APG-3, [Cal-  Mark 56 Uch can Spectral Frein Control Computer  [GR].  Development and Production System Manual, RL-375 Report of Preliminary Results for Control Computer  (RC) All Indicascopel.  RL-372  Report of Proliminary Results with the X7-1, no- venide General Report of AR, Research AR, Proceeding Massales  Deta on SCR-584 Control Equipment, RL-375		1711 200
teadson-Driven Gan Terrets [GR].  Tead and Matter Driven Gan Terrets [GR].  Tead and Matter Driven Gan Terrets [GR].  The Mateer Driven Gan Terrets [GR].  The Matter Driven Gan Terrets [GR].  The Sperry Stabilized Aircraft Gandaging System (AGL-2), Intermediate Phase [Sperry]. In 2299  Final Technical Report on AGL-1 Development [GR].  Motor Torpedo Boat (M.T.R.) Camputing Radar Sight for Blind, Seath-Hilbind and Vinant Pinal  Report [Fairchild].  Motor Torpedo Boat (M.T.R.) Camputing Radar Sight for Blind, Seath-Hilbind and Vinant Pinal  Report [Fairchild].  Report [Fairchild].  Report [GR].  Development of Gan Fire Control System Mark 53, Final Report [GR].  Monascript Hamiltook of Maintenance Instructions for Radia Sets AN/APG-3 and AN/APG-3. [Gal. vin].  SCHIAJ (AGL-1) Aircraft Fire-Control Computer (GR).  Berelamance of Gan Fire Control System Mark 54, Final Report [GR].  Berelamance of Gan Fire Control System Mark 54, Final Report [GR].  Berelamance of Gan Fire Control System Mark 54, Final Report [GR].  Report of Gan Fire Control System Mark 54, Final Report [GR].  Report of Gan Fire Control System Mark 54, Final Report [GR].  Report of Free Control System Mark 54, Final Report [GR].  Report of Free Control System Mark 54, Final Report [GR].  Report of Free Control System Mark 54, Final Report [GR].  Report of Free Control System Mark 54, Final Report [GR].  Report of Report of the Problems and Activities of Group G High-Power Ground Equipment, RL-330  ARC Range Fail.  Report of High Power Ground Equipment, RL-330  ARC Range Fail.  Report of High Power Ground Equipment, RL-330  ARC Range Cuit.  Report of High Power Ground Equipment, RL-331  Report on SRR-34, Centrol Report [GR].  Report on	PRESCONTROL SYSTEMS, see also Computing Devices and	
the MIT   14-130 the decomposed and Countraction of a Local Torret Gyro Lead-Compacting Sight for AGS Rahar [GR].  The Sperry Stabilized Aircraft Ganlaging System (AGL-2), Interactiate Phase [Sperry]. 14-289 Sight for Rlind, Sead-Rlind and Final Fire (Sperry). 14-289 Motor Torredo Root (M.T.b.) Computing Endour Sight for Rlind, Sead-Rlind and Final Fire (Sperry). 14-292 The Fairchild Control Station Computer—Part I, The Frinchild Control Station Computer Part I, The Frinchild Control Station Computer Part I, The Frinchild Control System Mark 53, Final Report [GE].  Prevelopment of Gan Fire Control System Mark 54, Final Report [GE].  Monomeriel Humbook of Maintenance Instructions for Rodiu Sets AN/APG-3 and AN/APG-3-1 [Gal- vin].  SCHIAI (AGL-1) Aircraft Fire-Control Computer [GR].  Development for a Gan Director System Mark 56, Final Report [GE].  Final Report [GE].  Report [GE].		
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The Sperry Stabilized Aircraft Guntaying System (AGL-2), Intermediate Plane [Sperry]. 14-289 Final Technical Report on AGL-1 Decelopment [GE1, 14-285] Motor Torpedo Bust (M.T.H.) Camputing Radier Sight for Rlind, Semi-Illind and Vinaal Five [Sperry]. 14-282 The Feischild Central Station Camputer—Part I, 14-287 The Feischild Central Station Camputer—Part I, 14-287 The Feischild Central Station Camputer—Part I, 14-287 Decelopment of Gan Fire Control System Mark 58, Final Report [EE]. 14-427 Decelopment and Production Samplus of APG Series (AN/APG-5 and AN/APG-8) Radae Equipment (Galvin). 14-569 Manusaeriet Hamibook of Maintenance Instructions for Rodie Sets AN/APG-5 and AN/A	Development and Countraction of a Local Turvet Gyro	A Condenner Phane Shifter Range Unit with Sine
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Astisticral, Target Designation Equipment [GK].  Motor Torpedo Boat (M.T.B.) Camputing Badar Sight for Illind, Semi-Illind and Fineal Fire ISperty].  The Feirchild Central Station Camputer—Part I, The Foirchild So Caliber B2 Camputer and AGS Adaptations for an Ruermon Tail Turcet, Part II, Final Report [Fairchild].  Issued Barrend Forman Tail Turcet, Part II, Final Report [Fairchild].  Issued Barrend Forman Tail Turcet, Part II, Final Report [Fairchild].  Issued Barrend Forman Tail Turcet, Part II, Final Report [Fairchild].  Issued Barrend Forman Tail Turcet, Part II, Final Report [GM].  Issued Anti-Insurance Instructions for Radix Sets AN/APG-8 Radio Equipment [GAlvin].  Issued Anti-Insurance Instructions for Radix Sets AN/APG-8 and AN/APG-8 and Instructions for Radix Sets AN/APG-8 and AN/APG-8 [Insurance Instruction for Modifying the SCR-584 Modelator in].  Issued Anti-Insurance Insurance In		
Motor Torpedo Boot (M.T.B.) Cauapating Rudar Sight for Illind, Semi-Hind mod Vinad Fire (Sperry).  14-302 The Fairchild, Secal-Hind mod Vinad Fire principles of Cather M2 Cauapater—Part I, The Fairchild Secans Tail Turcet, Part II, Flood Report [Fairchild].  14-431 Development of Gan Fire Control System Mark 58, Final Report [GE].  14-479 Development and Production Sampton of AIG Series (AN/AIG-5 and AN/AIG-5A [Galvin].  14-559 Monusaeriet Hamilbook of Maintenance Instructions for Rodin Sets AN/AIG-6 and AN/AIG-5A [Galvin].  14-569 Monusaeriet Hamilbook of Maintenance Instructions for Modifying the SCR-584—Preliminary Technical Instruction for Modifying the SCR-584 Modulator for [GE].  Development of Gan Fire Control Computer [GE].  Development of Gan Fire Control Computer [GE].  Development of Gan Fire Control Computer [GE].  Development of Gan Fire Control System Mark 56, Final Report [GE].  14-569 SCHIAI (AGh-1) Aircraft Fire-Control Computer [GE].  Development of Gan Fire Control System Mark 56, Final Report [GE].  14-57  Development of Gan Fire Control System Mark 56, Final Report [GE].  14-58  Mark 58 U Cheanagraph.  Stl. 810 Divertor of the MSSN System Mark 56, Stl. 84-19 relation for Modifying the SCR-584 Andlysin of the Tracking of the Conduct of the Miles of the Tracking of the Tracking of the Conduct of the Miles of the Tracking of the Conduct of the Miles of the Instruction of the Tracking of the Tracking of the Conduct of the Miles of the Instruction of the MSSN System Reveals of the Tracking of the Tracking of the Tracking of the Conduct of the Miles of the Instruction of t		
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ARO Range Unit.  Report of A.A.R. Test on NT-1 at Fort Monroe, Virginia, Felenary-March, 1942.  Data on SCR-584 Cantrol Equipment.  RL-374 Report on Aireraft Radio Sight. Pictorial Brief of an Experimental AGL-1 Installation.  Praject Dalphin.  RL-375 Report on Dalphin.  RL-376 RL-377 Report on Aireraft Radio Sight. RL-377 Report on Aireraft Radio Sight. RL-378 RL-379 RL-379 RL-379 RL-370 RL-371 Report of AR Report of AR Report of Radiation Laboratory, June 1, 1941 [NDRC].  RL-371 Report of A.A.R. Test on NT-1 at Fort Monroe, Virginia, RL-374 RL-375 RL-376 Report of A.A.R. Test on NT-1 at Fort Monroe, Virginia, RL-374 RL-376 RL-377 Report of A.A.R. Test on NT-1 at Fort Monroe, Virginia, RL-374 Relation Recast and Monuting Diaceasions of AN/APG-5 (ARO) Airborae Range Odly Radiations of AN/APG-5 (ARO) Airborae Range Odly Radiation of AN/APG-5 (ARO) Airborae Range Odly Radiation of AN/APG-5 (ARO) Airborae Range Odly Radiation of AN/APG-5 (ARO) Airborae Rang	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	
Report of A.A.R. Test on NT-1 at Fort Monroe, Virginia, February-March, 1942. RL-368 Data on SCR-584 Cautrol Equipment. RL-370 Analysis of Firing Tests on Mark 51 Dam Neck, Virginia. RL-371 Report on Aircraft Radio Sight. RL-374 Rodor Torget Continust. RL-375 Pictorial Rrief of an Experimental AGL-1 Installation. RL-375 Praject Dalphin. RL-385 RL-386 MTR Computing Radar Sight. RL-8-24 MTR Computing Radar Sight. RL-8-4 MTR Computing Radar Sight RL-8-4 MTR Computing Radar Sight RL-8-2 MTR Co		
ginia, Pelemary-Hareh, 1942. RL-368 Data on SCR-584 Cantrol Equipment. RL-370 Analysis of Firing Tents on Mark 51 Dam Neck, Virginia. RL-31 Report on Aircraft Radio Sight. RL-374 Rodor Tacget Contrast. RL-375 Pictorial Brief of an Experimental AGL-1 Installation. RL-377 Praject Dalphin. RL-385  MTR Computing Radar Sight. RL-8-14 DOLPHIN, Remarking Radar Sight. RL-8-24 Alignment Kit (Torpedo Rork) Mark 1 Mod 0. RL-8-42 FREQUENCY MEASUREMENTS, see Test Equipment General, Progress Reports, Surveys, Lists, etc. Technical Report of Radiation Laboratory, June 1, 1941 [NDRC].		
Data on SCR-584 Cantrol Equipment. RL-370 Analysis of Firing Tents on Mark 51 Dam Neck, Virginin. RL-371 Report on Aircraft Radio Sight. RL-374 Rodor Tacget Continut. RL-375 Pictorial Rrief of an Experimental AGL-1 Installation. RL-376 Iton. RL-375 Praject Dalphin. RL-385  DOLUMIN, Remadely Contcalled Torpedo Rack Actuating Merhanism. RL-328 Alignment Kit (Torpedo Rock) Mark 1 Mod 0. RL-3-42 REQUENCY MEASUREMENTS, see Test Equipment GENERAL, Progress Reports, Surveys, Lists, etc. Technical Report of Radiation Laboratory, June 1, 1941 [NDRC]. 14-93		MTR Computing Radar Sight. RL-8-14
Analysis of Firing Tents on Mark 51 Dam Neck, Virginin.  RL-371 Report on Aircraft Radio Sight. RL-374 Rodor Tacget Contrast. Pictorial Rrief of an Experimental AGL-1 Installation. RL-377 Praject Dalphin. RL-385 RL-378 FREQUENCY MEASUREMENTS, see Test Equipment GENERAL, Progress Reports, Surveys, Lists, etc. Technical Report of Radiation Laboratory, June 1, 1941 [NDRC].  14-93		DOLUHIN, Remately Controlled Tornedo Rock Actu-
RL-371 Report on Aircraft Radio Sight. RL-374 Rodor Tocget Continust. Pictorial Rrief of an Experimental AGL-1 Installation. RL-375 RL-376 RL-376 RL-377 Report No Aircraft Radio Sight. RL-376 RL-377 Report No Aircraft Radio Sight. RL-377 RL-374 Report Of Aircraft Radio Sight. RL-375 RL-376 RL-377 Report No Aircraft Radio Sight. RL-377 Report Of Aircraft Radio Sight. RL-376 RL-377 Report No Aircraft Radio Sight. RL-377 Report No Aircraft Radio Sight. RL-378 RL-378 RL-378 RL-379 RL-371 Report No Aircraft Radio Sight. RL-374 RL-374 RL-374 RL-374 RL-374 RL-375 RL-376 RL-376 RL-376 RL-376 RL-377 Report No Aircraft Radio Sight. RL-376 RL-377 Report No Aircraft Radio Sight. RL-376 RL-376 RL-376 RL-376 RL-376 RL-376 RL-376 RL-377 Report No Aircraft Radio Sight. RL-376 RL-376 RL-376 RL-376 RL-376 RL-376 RL-376 RL-376 RL-376 RL-377 Report No Aircraft Radio Sight. RL-376 RL-377 Report No Aircraft Radio Sight. RL-377 RL-376 RL-376 RL-376 RL-376 RL-377 Report No Aircraft Radio Sight. RL-377 RL-376 RL-377 Report No Aircraft Radio Sight. RL-376 RL-376 RL-376 RL-377 Report No Aircraft Radio Sight. RL-376 RL-377 RL-376 RL-376 RL-377 Report No Aircraft Radio Sight. RL-376 RL-377 Report No Aircraft Radio Sight. RL-376 RL-377 RL-376 RL-377 Report No Aircraft Radio Sight. RL-376 RL-377 Report No Aircraft Radio Sight. RL-377 Report No Aircraft Radio Sig		
Report on Average Radio Signt.  RL-375  Rodor Tocget Contrast.  RL-376  Rictional Rrief of an Reperimental AGL-1 Installation.  RL-377  RL-377  RL-377  RL-377  RL-377  RL-377  RL-378  FREQUENCY MEASUREMENTS, see Test Equipment  General, Progress Reports, Surveys, Lists, etc.  Technical Report of Radiation Laboratory, June 1,  1941 [NDRC].  14-93		
Pictorial Brief of an Experimental AGL-1 Installation, RL-377 Reports Reports, Surveys, Lists, etc.  RL-377 Technical Report of Radiation Laboratory, June 1, 1941 NDRC. 14-93		
tion, RL-377 Technical Report of Radiation Laboratory, June 1, Praject Dalphin. RL-285 1941 [NDRC]. 14-93		
Praject Dalphin. RL-285 1941 [NDRC]. 14-93		
angues inques.		
CONFIDENTIAL	trayest Dalphin, RL-336	Total Individuals 13-00
	CONFIL	DENTIAL .

Consumar Wantiburds	GENERAL (Continued)
General (Continued)  Use of Microwave for Detection Purposes, Dec. 15,	Project Report, Feb. 1, 1945 [NDRC]. 14-400
1941 [NDRC]. 14-94	Government Radar Patest Program, Technical Re-
Use of Microscave for Detection Purposes, Aug. 13.	part No. i, Duplexing [NDRC]. 14-391
1942 [NDRC]. 14-98	U. S. Radar Survey, Section 7, Nomenclature Index
Use of Microwave for Detection Purposes, Bimonthly	[NDRC]. 14-393
Report, Mar. 15, 1942   NDRC[. 14-100	Government Radar Patent Program, Technical Re-
Use of Microscave for Detection Purposes, Bimonthly	part No. 4, Fuedamental Radar Systems [NDRC].
Report, June 1, 1942 [NDRC]. 14-101	14-417
Use of Microwave for Detection Purposes, Bimonthly	Project Report, Apr. 1, 1945 [NDRC]. 14-420
Report, Oct. 1, 1942 [NDRC]. 14-109	Government Radar Patent Program, Technical Re-
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1943 [NDRC]. 14-118	Project Report, Division 14, June 1, 1945 [NDRC].
Summary of Projects, Radar Division 14, Mar. 1,	14-440
1943 [NDRC]. 14-124	U. S. Radar Survey, Section 3, Ground Radar,
Summary of Projects, Bimonthly Report, May 1,	Change 1 [NDRC]. 14-451
1943 [NDRC]. 14-141	U. S. Radar Survey, Section 1, Navigational Radar,
Bimonthly Project Status Report and Summary of	Chauge 1 [NDRC]. 14-455
Projects, July 1, 1943   NDRC . 14-170	Project Report, Division 14, Supplement, July 1,
Bimonthly Project Status Report and Summary of Projects, Sept. 1, 1943 [NDRC]. 14-184	1945 [NDRC]. 14-463 U. S. Radar Servey, Section 4—Test Equipment,
Project List as of September 15, 1943 [NDRC].	Change 1 [NDRC]. 14-463
14-198	Project Report, Aug. 1, 1945 [NDRC]. 14-489
Index of Radar Systems, Oct. 1, 1943  NDRC .	Radar Model Shop, Final Report   Remearch Constr.
14-196	Co.]. 14-356
Bimonthly Project Status Report and Sammary of	Project Report, Dec., 1945 [NDRC]. 14-565
Projects, Nov. 1, 1943   NDRC . 14-213	U. S. Radar Survey, Section 3-Airharne Radar,
Project Report, Feb. 1, 1944 [NDRC]. 14-238	Chauge 1 [NDRC]. 14-568
Project Report, Apr. 1, 1944 [NDRC]. 14-242	U. S. Radar Survey, Section 7-Nomenclature
Index of Radise Systems, Feb. 15, 1944 [NDRC].	Index, Change 1 [NDRC]. 14-574
14-244	Index of Division 14, NDRC Reports, First Supple-
Index of Division 14, Reports, Other than Radiation	ment, Mar. 1, 1946. 14-383
Laboratory Reports, May 1, 1945 [NDRC]. 14-250	Report of the System Group, Jun. 36, 1941. RL-28
Dévision 11 Contract List, June 1, 1944   NDRC . 14-270	Present Status of Radiatine Laboratory, Jun. 12, 1942. RL-32
Project Report, June 1, 1944 [NDRC]. 14-277	1942. RL-32 Present Status of Radiation Laboratory Program,
Project Report (Supplement to Division 14 Report	Dec. 9, 1942 to July 1, 1943, RL-33
No. 277), July 1, 1944 [NDRC]. 14-278	Coordination, Dec. 19, 1949. R.L.13
Project Report, Aug. 1, 1944 [NDRC]. 14-301	Coordination, Jan. 2, 194L Rt158
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Program, Technical Report No. 1 [NRDC], 14-319	uary 1944. Rf400
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[NDRC]. 14-331	Standards for Microvava Frequencies. Rf. 399
U. S. Rudar Survey, Section 2, Shipborne Radar	Continuation of Index of Regular Reports, Special
[NDRC]. 14-332	Reports, Manuals and Tests, Nov. 12, 1945.
U. S. Radire Survey, Section 3, Ground Radier [NDRC]. 14:333	R.L800
	Continuation of Indee of Regular Reports, Special
U. S. Radar Survey, Section 4, Navigational Radar [NDRC]. 14-334	Reports, Manualu and Tests, Mar. 7, 1948.
U. S. Radar Survey, Section 4, Test Equipment	R.L1083
[NDRC]. 14-336	A Production Analysis of the Wartims Rudio and
Project Report, Oct. 1, 1944 [NDRC]. 14-338	Radar Industry. RL-S-31
Government Radar Patent Program, Technical Re-	Thumbasil Statch for Davember and January, 1945.
port No. 2. Procise Range Measurement and	RL-S-40 Thumbunil Sketch for February and Misrah, 1913.
Tracking [NDRC]. 14-339	RL-S-46
Project Report, Dec. 1, 1944 [NDRC]. 14-373	Thumbnuil Sketch for April and May, 1945, RL-S-33
Government Ruder Patent Program, Technical Report	Lecture Notes [J. C. Slater]. RL-T-1
No. J. Magnetrone [NDRC]. 14-384	Notes on Microwaves [W. W. Hansen]. RL-T-2
Project Report, Supplement, Jan. 1, 1945 [NDRC].	Microwove Rudge, Volume I, Thoury and Practice of
14-588	Pulsed Circuits. RL-T-S
	Alla Age Ag To

GENERAL (Cantinued)	Ground Radar (Continued)
Microwave Technique on of May 1943. RL-T-13	Unrey 170-T Loran Tronsmitter Monnal.
General Lecture Series on Rudar Components.	
RI_T-I8	RL-M-162 Radar Beacon, Mark I Mod. 1, RL-M-167
ROUND RADAR, see also Beacons, Early Warning, Fire	Preliminary Instruction Hank for Shore Rombard-
Control, Height Finding, Landing Navigation	ment Beacon Navy Model Mack 2 Mod 0 and
Ciangiaents	
Final Technical Report for I <sup>o</sup> I Adaptor Develop-	Preliminary Installation and Operating Instructions
ment [DuMont Labs.], 14-330	for Rudar Set AN/CI'S-6, RL-M-196
Instruction Book for Precinion PIT Adaptor, Du-	Preliminary Technical Mannal for SCR-584 MTI
Mont Type No. 255 (Indientor-Tracker Unit BC	Modification Kit Na. MC-642-AS and Fun Beam
1365) [DuMont]. [4-340	Search Antenno. RL M-218
Radar Scawning Unit, Final Report [Chrysler],	Preliminary Instructions on Modification Kit MC-
14-566	627 for Rudio Set SCR-584, R1M-220
Rador Notating Antenna Spiral Seauning Units,	Preliminary Instructions on Modification Kit MC-
Bahmec and Adjustment [Chrysler], 14-573	627 for Radin Set SCR-584 (Revised), RL-M-220R
Data on SCR-584 Control Equipment, RL-370	AN/CPA-7 Opecations Room Equipment Supple-
Medinm-Precision Runge System for CXGQ (Project	menting Radio Srt AN/CPS-1. RL-M-228
Henry). RL-579	Pecformonee
Increasing Stubility of Operation of 4131-35 Mag-	Report on Preliminary Results with the XT-1. RL-8
netcans in the AN/CPS-1 System. RL-621	Regular Report on the XT-3. RL-59
Electrical Design of the $AN/TPS$ -10 Antenna,	Antiaircraft Artillery Board Test on the Simplified
RI_648	Ciccalar Sweep Range, RL-326
Low-Noise Replacement Presmplifier for the SCR-	Report of A.A.B. Test on XT-t at Fort Manrae,
584 (BC-1408) R1,-699	Virginia, FehMar., 1842. RL-268
AN/TPS-10B R-F Head Termination Report.	Pecfurumnec Report of the High-Power Ground
RL-889	System, RL-373
Moving Target Indication on MEII'. RL-1080	Tests on n M3B1 Oil Gear and nn Amplidyse Servo
Handkooks	for the SCR-598 Control Problem. RL-464
Features and Operations of Radio Set SCR-582,	Renults of Tents on Use of Rebosed-Encoks by the
RL-394	Army Grand Forces. RL-500
Preliminary Handback for Experimental Prototype	Tests of Iteacon Receiver on V-Beam. RL-522
Model Rmlio Set SCR-620, Supplement, RL-M-121	Flurida Tests un ROSEBUPS against SCR-582,
Hondbook for Model CXEH (BGX) Rudar Beacon.	SCR-615, MEII'. RL-596
RL-M-129	A Description of AN/TPS-10 and Its Performance
Prelimianry Mannal for Rudor Beneau Type BPS	in Monstainans Terenin. RL-606
(Prototype of AN/CPN-8 Similar in Function	Window Tenta on AN/CPS-6, Lecabary, Florida,
and Components to SCR-620.) RL-M-136	Jane 2 and Jane 9, 1944 RL-S-20
Radio Set SCR-584-Preliminary Technical Instruc-	A Survey of the AN/TPS-10 (Little Abner).
tion Book, RL-M-132	RL-S-69
Technical Manual for Rudio Set SCR-582, Mk III.	MEH Close Control. RL-S-78
RL-M-136	Systems and Attachments
Madification of SCR-584 for Oboc II. RL-M-151	U. S. Rudor Survey, Section 3, Ground Roder
Instructions for Modifying the SCR-584 Modulatur	[NDRC] 14-333
for Use in Aspen Transmitters, RI-M-155A	Preliminary Instructions for Experimental HRY
Instructions for Modifying the SCR-584 Madulatar	Enniument [Zenith Radio Corp.]. 14-380
for Eac in Anna Transmitters. RL-M-155B	Radio Set AN/MPN-1 (XE-1), Ground Controlled
MKW No. 1 Preliminary Instruction Book.	Aprimel (GCA) Radur, Technical Report [Gil-
RL-M-156A	fillan1. I4-449
MEW No. 2 Preliminacy Instruction Book.	U. S. Radar Survey, Section 3, Ground Radar,
RL-M-156B	Change 1 [NDRC]. 14-451
	Third General Report on Section Activities Covering
MEW No. 3 Preliminary Instruction Back. RL-M-156C	Periud from May 14, 1941 to November 14, 1941.
	RL-5
Instruction Handhauk far Rular Set AN/CFS-1A (Pre-production Sets). RL-M-156D	Interim Report of the Problems and Activities of
the second secon	Group G (High-Pawer Ground Equipment).
Lightweight Loran Transmitter (LLTX).	RL-36
RI-M-158A	Roof Systems Reports, August 26, 1941 to September
Preliminary Hamikank for Experimental Pratatype	24, 1911. RL-46
Model Radio Set SCR-with (Same as RL-M-121).	Regular Report on the XT-3, Oct. 22, 1941. RL-58
RL-M-161	see Russia seekast on our at all and all and all and

GROUND RADAR (Continued)	HRIGHT FINDING RADAR (Continued) SM Radae, RL-506
Systean and Attrehoreuts (Continued)	
Regular Report on the XT-3 (The Tra Centimeter	
Truck System), Nov. 26, 1941. RL-59	Tests of Reacon Receiver on V-Brane. RL-522 The SCI Rapid Scan Hright-Finding Antenna.
A Ruron Prospectus with a Pirturial Beief of BGS.	RI_688
RL-357	
BGS 10-Cm Radae Heuron. RL-358	Preliginary Installation and Operating Instructions
Hrief Description of MKW Microwave Racly Wurn-	fne Rudar Set AN/CPS-6. RL-M-196
ing. R1-428	High Power
GCA Ground Controlled Approach. RL-438	
MHF Mobile Height Finder Madified SCR-815.	K-Band High-Pawer Water Load. RL-723
RI444	Experiments in Microwave Breakdown. RL-731
Heief Description of AN/TPG-1, AN/FPG-1, SCR-	Present Status of Righ Power at S-Band. RL-793
598, Decelajonental Searment Gunlaying Raduc	Homing, see Beacons, Guided Missiles, Landing Sys-
Sets. RL-456	1ems, Navigation
Rosekad Microwave Bearna Kyaipment. RL-460	1FF, see alsa Absorbent Materials, Beacons, Propeller
Teack-Mooated SCR-582 Mk III, a Genecal-Parpone	Modulation
Microwove Set. RL-474	S. Band ASV Marker. RL-298
Light Mountain Rudar Set. RL-491	Remebud Miccowave Beacon Equipment. RL-460
Bracertail Height Finder AN/CPS-4. RL-504	SM Rudar, RL-506
I'-Beam GC Rudar. RI_507	Rotating Corner Reflectors for Ship Identification.
A "Ronge Only" Set for "Close-Ia String." RL-598	Redding Corner Represents for Suit Dentification. RL-654
T-5 Field Cheonograph for SCR-584. RL-968	
Autamatic Plotter RC-208 Uned with SCR-584 for	Black Marin, Caiacident Cross-Band Transponder for
Murtar Location, RL-990	S-Band Radar (AKW). RL-672
Martor Fire Detretion. RL-1064	Shipharae Dinek Mucia Autonnan. RL-796
K-Band Antiaircraft Fire Coutrol, RL-1065	Project TGI (AN/APX-11, AN/APX-16). RL-1081
Operating Instructions for the K-Band Regist-Scan	Peeliminary Technical Mannal for ARW.
System, RL-M-248	RL-M-180A
Spatem. Et-st-see	Preliminary Instruction Manual for X-Bund Count-
Guided Missiles	deut Bewein XCB (Mark I) AN/APX-14.
Final Report on SRB,, RL-403	RL-M-199
Radio Set RHH, Section I, Technical Description of	Preliationry Instruction Manual for S-Band Coinci-
the Production Model Radio Set RHB; Section II,	dent Transponder Bluck Maria, RT-74/APX.
Adjustment and Alignment of Radio Set RHR.	RL-M-211
Rl_508-1	Preliminary Honk of Maintenance Instructions for
Radio Set RHB, Section III, Glider Checkoat Pro-	Shipbaard Components of ARW. RL-M-229
redure. RL-508-2	Detertion of Propeller and Sambo Modulations.
Rudio Set RHB, Section IV, RHB Test Equipment.	RL-S-10
R1508-3	IMPEDANCE MEASUREMENTS, see Test Equipment, Trans-
Theory and Design of Guided Missiles Control Sys-	mission Lines
tem AN/APW-3, RI=1028	INDICATORS, see also Cathode-Ray Tubes
	[10] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
GUN LAYING, see Fire Control Systems, Sights	Indicator Types as of October 1942 [NDRC]. 14-114
Handstocks, see Airborne Radar, Ground Radar, Ship-	Final Terhaical Repart for Pal Adaptor Develop-
borne Radar, Test Equipment, etc.	ncent [DuMont Labs.]. 14-330
HEIGHT-FINDING RADAR	Instruction Book for Prevision PPI Adaptor, DuMont
Radar Height-Finding. RL-21	Type No. 255 (Indicator-Tracker Unit BC 1365)
Interior Report of the Problems and Articities of	[DuMont Lalos.]. 14-349
Group G (High Power Ground Engineent). RL-30	Performance and Stability of Triggeral Gates
A Condenser Phase Shifter Range Circuit with Sine	[Rensselaer Polytech.], 14-445
Wave Tearking Suitable for Microwave Height-	Ercors in Runge Measurement with a Circular
Pinding Station. RL-339	Sweep. RL-9
Altitude Detremination by Means of a Vertical PPI.	Improcessents in the Spot Error Indicator. RL-19
RL-351	Roof System Report, Initial Development-February
Supplementary Report on Altitude Detremination by	15 to April 1, 1841. RL-37
Mrans of an Expanded Elevation Indicator, Verti-	Nacy Roof, etc., Aug. 26, 1941. RL-39
eal PPI. RL-354  MHF Mobile Hright Finder Modified SCR-615.	Roof System Reports, August 26, 1941, to September
	24, 1941. RL-40
Beavertail Height Finder AN/CPS-4. RL-504	Regular Report on Indicaturs and Synthronizers, Oct. 15, 1941. RL-47

I	volcators (Continued)	Indicators (Continued)
	Regular Report on Indicators and Synchronizers,	Studies of British Phosphorn of the Type "C," "H,"
	Nov. 19, 1941. RL-48	"K," unil "M", RI405
	Indicators and Synchronizers, Dec. 24, 1941. RL-49	Range Height Indicator. RL-418
	Report of Activities of Synchronizer Section, Nov.	
	5, 1941. R1,-75	
	RF Envelope Indicator Instruction Manual. RL-77	The Identification of Signals on IPI Photographs for
	Correction of the Seauning of Shiphorus Radar Syn-	the Countraction of Rudar Maps. RI449
	tems for Roll and Pitch of the Ship. RL-126	On the Finetuations in Signals Returned by Many
	Cuthode-Rny Indicator. RL-130	Independently Moving Sentterers. RL-465
	Report of the Indienter Section. RI,-131	On the Appearance of the A-Scope when the Pulse
	Brief Report of Activities from February 12 to	Travels through a Hamograpous Distribution of
		Scatterers, RL-466
		Percise Navigation by Means of a Radne Map Super-
	Report of Section VI, Murch 4 to Murch 22, 1941.	posed on the PPI. RL-503
	RL-133	A Method fac Relay Ruber PPI Synchronization.
	Export by Indicator Group, Feb. 13, 1941. RL-134	RL-505
	Special Report for the Cathode Rny Tube Section,	Lighthnuse R-F Kuvelope Indicator, RI,-542
	Brief Summiry of Results of Persistence Colembs	A Previous Plan Position Indicator. RL-560
	tions, Feb. 28, 1941. RL-135	A Precision X Sweep Generator, RL-563
	Persistence Measurements, July 7, 1941. RL-136	A Precision Self-Synchronous Runge System for
	Luminesernee of RCA Cathade-Ray Tube with Can-	I <sup>e</sup> I. RI573
	onde Serven. RL-137	Medium Precision Range System for CXGQ (Project
	Indicator Companents as Fixed in a Complete Air-	Henry). RL-579
	ernft Interesption Installation. RL-138	Pecfacmonee Characteristics of Army-Navy Pre-
	Recommended Designations of Radar Indicator	. ferred Type Electrostatic Catholis Ray Tubes.
	Types. RL-159	RL-588
	Plan Position Indicators. R1_308	Investigation of Properties of Durk Trace Cutlende
	Proposed Performance Specifications for the P?	Roy Tuben, RL-597
	Long-Pernintence Casende Serven. RL-309	Rifrets of Line and Cathody-Follower Terminations
	Report on Measurement of British CR Tubes with	on Pulse Shone, RL-616
	Lony-Persistence Scerens. RL-310	Plan Position Imlientor for \$84 AJ. RL-678
	AIA Indicators. RL-311	Synthetic Rudor Reboen in the Presence of Jum-
	Pton-Position Indicatar Using a Sinnsold Poten-	ming. RL-708
	tiometer, RI,-312	Takyo H2X Photographs, Comparison of Operational
	Conference on P7 Cathode-Boy Tubes Held April 5	PPI Photographs with PPI Predictions of the
	nul 6, 1843. RL-314	Ultrosonie Rutar Trainer. RI715
	A Shipborne Mechanical Botation Plan-Position Indi-	P41 (Photographic Projection PTI). RL-725
		A/R Bange Scope, RL-755
	Specification of Performance Trats for PII Sim-	Trats of a Type C Data Presentation with a Spiral-
	midal Potentiametecs Types RL16K and RL14.	Scon Aircraft-Interception System, RI-767
	RL-316	PPI Off-Center Conversion Kit (MX 364/CPS),
	Indicators for a Ground-Controlled Approach Sys-	R1778
	tem_ RL-317	GPI fac Clour-Control Bambing. R1-783
	Errors in Circular Sureps Doe to Descutering and	Tents of Abled Trucking with PI. RL-797
	Ellipticity of Circle. RL-328	Notes on Photometry, Calorimetry, and an Explana-
	Altitude Determination by Mrans of a Vertical PPL	tion of the Centited Scale, RL-804
	RL-351	General Partone Indication System. RL-817
	Supplementary Report on Altitude Determination	AN/APS-30 Series Indication System. R1-834
	by Menns of an Expanded Elevation Indicator, Ver-	Video Mapping. R1890
	tical PPI. RL-354	Three Time IPI. RL-934
	Moximum Allowable Negative Backswing after	SN-41/APA-54 (Codilloc II Synchronizer) and IN-
	Palaca, RI363	188/APA-63 (Confiller II Indicator). RL-937
	Photographs of the PPI Indicator Total with 3-Cm	
	ASV over Water and Land. RL-381	The Use of Synchess for Radial Time Rase Displays.
	Tretical Devices Based on Superposition of a Plat-	RL-941
	ting Roard on the PII Pattern. RL-387	A Trigger Generator for Signol Threshold Studies.
	Same Photographic Mrusures of PPI Linearity and	RL-1036
	Addendom. RL-389	Instruction Maunal for B-18 Radar Installation.
	Vibration and Shock Comparison Tests of 7-In.	RI,-M-100
	Cothoile Roy Tubes in Two Different Type Moonts.	Instruction Manual for B-18 Indicator Components
	DI.390	(Included in RI-M-100). RL-M-102

Indicators (Cantinued)	Landing Systems (Continued)
Operating Instructions for the Model B PPI Indi-	Pill Box Antenna for Glide Path. RL-260
cator Central. RL-M-107	Indicators for a Granud-Controlled Approach Sys-
Instructions for Type K Self-Synchronous Oscillo-	tom. RL-317
scope, RL-M-109	GCA Ground Controlled Approach. RL-438
Instruction Manual for Audio Indicator Type 123R.	A Simplified Search Antenna for Radio Set AN/
RL-M-122	MPN-1, RL-486
Mannol for Opecation and Maintenance of TW	Ultra-Portable Microwave Rador Beacons as Beam
Audio Indicator. RL-M-134	Approach Aids in Aircraft Londing. RL-581
Instruction Mannel for Projection PPI. RL-M-137	A Simple Trainer for GCA Approach Controller.
AN/APS-)5 Receiver-Indicator Madified for Ground	Identification of GCA Search Targets, RL-670
Range Sweeps and Remote Amplifier. RL-M-172A	The Trainer for Radia Set AN/MPN-1. RL-676
Ricetronic Cursor for AN/APS-15. RL-M-175	BUPX (AN/UPN-3, 4, AN/APN-11) Ultru-Portoble
Operating Instructions for Sweep Calibratar, Model R. RL-M-188	X-Band Rodor Beneous and Their Tactical Unes.
R. RL-M-188 Haudbook of Operating Instructions for Laran Low	RL-710
Frequency Converter CV-27/UIN. RL-M-222	LIGHTHOUSE TUBES, see Tubes, R-F Heads
Handbook of Muintenance Instructions for Luran	LOCAL OSCILLATORS, see Tubes, Receivers
Low Frequency Converter CV-27/UPN, RL-M-225	
Handbook of Maintenance Instructions for AN/APA-	LORAN, see Navigation MAGNETRONS, see also Cathodes
55 Indicator Assembly. RL-M-243	
Operating and Majatemance Instructions for Indi-	One Centimeter Magnetron Research [CRL]. 14-120
cutor for Rapid Scon System, RL-M-249	Scaling and Relative Efficiency of Different Sized Magnetrons [Burtol]. 14-176
Tenting of Skintrona, RL-S-1	Magnetrous [Burtol]. 14-176 Progress Report on the Development of One and
Testing of Skintrons (Supplement), RL-S-1s	Three CM Magnetrons [CRL], 14-223
A Comparison of "Positive" and "Negative" Inten-	The Rlimination of Extroneous Resonance Refects in
nity Modulotica of PPI Diaplays, RL-S-4	Tanable Centimeter Magnetrona [CRL]. 14-233
Comparison of P5 Serven Test Methods. RL-S-9	The Tuning Properties of the Tunable Magnetrous
Model 5 Synchroscope, RL-S-18	in the Three Centimeter Band [CRL]. 14-234.
Ground Position Indicator for Rudar Navigation	Cold Impedance of E5 Tubes  CRL , 14-235
and Bombing. RI-S-19	Colambia Radiation Laboratory Progress Report,
Tactical Une of Delayed PPI Scopes of the AEW System. RL-S-36	Jan. 1, 1944   CRL . 14-239
Waveforms, Voltage and Resistance Measucements	Wavegaide Output for 1.25 Centimetee Maynetrons
in AN/APA-5 Indientor Equipment, RI-S-38	[CRL]. 14-245
H2K Rador Displays. RL-S-41	Progress Report for Colombia Radiotion Laboratory,
Release Point Indicator Used in Conjunction with	February 1944 [CRL]. 14-260
RC-204. RL-S-47	Columbia Radiation Laboratory Progress Report,
Tabulation of CRT Serven Properties. RL-S-48	March 1944 [CRL]. 14-266
PPI Photographs from AEW. RL-S-51	Technical Report on K-Band Magnetron, May 22, 1944, and Supplement, Aug. 21, 1944   West, E. &
General Lecture Series on Rador Components.	M. Co.], 14-299
RL-T-18	Equivalent Circuit for Besonant Modes of a Magne-
INTERFERENCE, see also Noise	tron, Zera Mode [CRL]. 14-322
Reduction of Radar-Rudio Interference from Modu-	The Resonant Modes of the Rising Sun (A Tube)
lators. RL-431	Anode [CRL], 14-323
Shielding of Microwave Receivers against Interfer-	Mica Windows for Waveguide Output Magnetrons
ence at Intermediate Frequencies, RL471 Interference Blanker, RL-749	[RCA]. 14-366
Interference Binnker. RL-749 Interference Between SCR-584's Tracking APN-19	Wheegvide Output Magnetrons Employing Fused
Beacons, RL-816	Quartz Output Transformers [RCA], 14-367
X-Band Sea-Return Measurements. RL-870	Government Badar Patent Program, Technical Re-
JAMMING, see olso Countermeasures	port No. 3-Magnetrons [NDRC]. 14-384
Off-Frequency G-W Jamming. RL-910	Frequency Stabilization of Oscillators by a Method
Synthetic Radar Rehoes in the Presence of FM Jum-	Porticularly Adupted to the Higher Frequencies
ming. RL-1035	and Magnetron Sources [RCA], 14-397 Final Report Covering Development Work Done on
KLYSTRONS, see Tubes, Velocity-Modulated	High-Power S-Band Magaetrons (HP-10V) and
LANDING SYSTEMS, see also Beacons, Navigation	Series Gaps [Machlett Lubs.]. 14-423
S-Band ASV Marker, RL, 298	Final Beport on the Development of Magnetron Gen-
Special Report on Bolometer Blind Landing System,	erators of High-Power and of Short Wavelengths
RL-7	[BTL-WE]. 14-431

100	ETRONS (Continued)	Magnetrons (Continued)
	Band Magnetron, Technical Report   RCA . 14-444	Perforamnee Characteristics of the Maynetron under
	Magnetrons and Detectur Beat-Oscillatar Receivers	Conditions Simulating Beacan Operation, Take
	with Recard of Material Furnished [BTL]. 14-450	Types 2J38 and 2J22. RL-227
	Operations of the Project Tuke Shop, Harrison, N. J.	
	[RCA]. 14-500	Spectra of Magnetrons for Long Palses. RL-228
	Preliminary Oscillagraph Studies of RF Baild-up in	Analysis of Magnetron Performance, Part I, Equip-
		ment Cicenit, Method, Applications. RL-229
		Field Patterna in Cold Magnetrons, Including Corre-
	Final Report on Rudar Tube Model Shap [Sylvania].	lation with Tube Performance and Tunable Design.
	14-582	R1,-230
	Magnetrons for Production of Centimeter Wave-	Preparating of Teen for G-Band. RL-238
	length Radiation, ulso Absocytima of Sack Radia-	Maximum Allowable Negative Backswing After
	tien in Water Vapor [CRL]. 14-588	Palnea. RL-363
	Riving San Magnetron with Large Number of An-	Adjustment of Magneteon Frequency by an External
	ode Cavities for Centimeter and Millimeter Wave-	
	lengthu [CRL]. 14-589	Repart on Western Electric 717A Modulator Type
	Regular Report on the Components Testing System,	D-150442 and Radio-Frequency Unit Type D-
	Oct. 8, 1941, RL-41	150452. RL-425
	Transmitting Take Section, Dec. 2, 1940. RL-79	Cold Reseasence Theavy of the Waveynide Tanable
	Teammilting Tube Section, Dec. 17, 1940. RL-80	Magnetron. RL-445
	Transmitting Tuke Section, Jan. 13, 1941. RL-81	Analysis of Magnetron Performance, Part II, De-
	Transmitting Tuke Section, Jan. 28, 1941. RL-82	tailed Study of the Operation of a Magneteon.
	Transmitter Tuke Section, Mar. 18, 1941. RL-83	RL-451
	Transmitter Tube Section, May 19, 1941. RL-84	Magnetron Stabilizing Tuner, RL-473
	Transmitter Take Section, July 1, 1941. RL-85	Report on K-Rand Wark in U. S. A. RL-475
		Radame Bulletin 18, The Depundence of Magnetron
	Gaide to the Operation of 10 Cm Standard Mugue-	
	trons. RL-86	Palling on Radonce Shape and Orientation.
	Special Report of Characteristics of 3-Cm Magaetross	RL-483-18
	and Instructions for Their Operation. RL-87	The Resenant Modes of Magnetran Cavities. RL-493
	Note on Design of Magnetrans. RL-88	Magaetron Starting Time, RL-509
	Cathode Temperatures in Magnetrous, RL-90	Proposed Method for Measuciny Instantaneous Mag-
	Theory of the Magaetron Oscillator. R1-118	actron Input Impadance with the Aid of a Delay
	Theory of the Magnetron Oscillator, Electronic	Network. RL-515
		Pulse Shapes and R-F Spectra for Cambinations of
	Orbits in the Cytindrical Magaetron with Static	Steenderry-Carlson Mack I and Mack II Modula-
	Fields. RL-122	tocs with 2J22, 2J21, and 725A Magneteons.
	Theory of the Split-Anode Magnetres. RL-127	RL-518
	Report of the Radio-Frequency Section. RL-140	Effect na Carreat Palue of Resistance in Series with
	3-Cas Magnetrua Cald Impedance, RL-163	the Magnetron, RL-527
	Theory of Space Charge in an Oscillating Magnetron.	
	RL-176	An Antamatic Frequency Control and Frequency
		Selection System for Magnetrons. RL-541
		Maynetron Tuning and Stabilization. RL-567
	Input Impedonce and Taning of Magneton Cavities.	Effects of Vaciation of Yune Width and Cathode Size
	RL-190	an the Operation of Magnetrous. RL-586
	Theory of Magnetron Operation. RL-200	Cathodes for Pulsed Magsetrons, Part I, Correla-
	Numerical Calculation of Space Charge Behavior and	tions Between Oscillating and Diode Conditions.
	Paper in the Magnetcoa. RL-201	RL-609
	Preliminary Report on Frequency Shift vs. Magne-	Stability of Magneteous Operated by Spack Gap
	tron Bux Temperature. RL-220	Modulators. RL-620
	RF Louding of 10-Cat Moynetrans. RL-221	Increasing Stability of Operation of 4J31-35 Mag-
	Strapping Tolerances for Maynetcons. RL-221	netrons in the AN/CPS-1 System. RL-621
	Mognetron Strapping Wavelength Calculations.	Influences of Palse Transformer Design on 4J31-35
	RL-223	Magaetron Stability. RL-622
	Fourier Analysis of Palses with Frequency Shifts	Frequency Drift of Certain X-Band Magnetrons.
	during the Pulne, RL-224	RL-663
		Cathodes for Pulsed Magnetrons, Part II-Construc-
	Frequency and Spectrum Characteristics of Stand-	tion and Performance of Pulsed Cathodes. RL-683
	and Magnetrons and the Effect of Change of	The Regulation Obtainable in the Operation of a
	Shape of Current Palse. RL-225	
	Practical Considerations of Magnetron Design.	Hard Tuke Madalutar with Magnetron Load.
	RL-226	RL-697

120 sed 176 sed 176 sed 176 sed 178 sed 178 sed 123 sed 178 se

Magnetrons (Continued)	MORULATORS (Continued)
An Electronic Modulator for CII Magnetrous. RL-748	Regular Report of Modulator Group, Nov. 4, 1941. RL-72
General Theory of Kleetronic Beam Modulators. RL-758	Instruction Manual Brawning Type A Synchronizer. RL-74
Anutysis of Line Modulator for Hehaclor with a	Report of Activities of Synchrunizer Section, Nov. 5.
Sparking Mugnetron Land. RL-765	1941. RL-75
Present Status of High Power at S-Hand. RL-793 Mode Selection in Magnetrans. RL-809	Test Set for Raytheon Service Modulator, Instruc- tions for Operation and Testing. RL-76
Mode Selection in Magnetrans. RL-809 XCT Final Report. RL-879	Instruction Manual for Raytheon Service Modulutor
LCT, 900 MC/SEC FM-CH Magnetron. RL-1005	H'X-3587A. RL-78
The 4J70-77 Series of Tanable Magnetrons. RL-1006	Spark-Gup Colloquium at Radiation Labaratory,
Final Report on the RM50 Magnetron. Ri1007	MIT, July, 1942. RL-207
A Method for Calculating Magnetron Remaunt Fre- quencies and Modes. RL-1039	Modulutar Colloquium, Apr. 16-17, 1943. RL-208 Rutury Spark Gup Modulators. RL-209
R.F Phusing of Pulsed Magnetrons. RL-1051	Tests on Five Types of Triggered Switch Modulators,
3-Cm Muguetron Test Reach Construction and Opera-	RL-210
tion. RL-M-114	Report on Same Takes Used in Hard Take Modu-
Manual for Magnetrons, Type RJ 22-35, 706AY-GY, 714AY and 718AY-EY. RL-M-116	lators, RL-211 Report on Hard Tube Modulators and Drivers,
Mierowave Technique as uf May 1943, RL-T-13	RL-212
General Lecture Series on Rudar Components.	Pulse Transformers. RL-213
RL-T-18	Line-Controlled Blocking Oscillator. RL-214
MAINTENANCE, see Airborne, Ground, and Shipborne	Measurement and Design of D-C Resonant Charging Chokes. RL-215
Radar, Performance, Test Equipment	Chokes. RL-215 Modulated Pulse Cummunication. RL-216
MAPPING, see Navigation and Mapping MATERIALS, see also Absorbent Materials, Crystals, Di-	Pulse Transformers. RL-217
electrics	Oscilluscope Presentation of Hysteresis Loops at 60
Development of Electrical Brankes through Fundered	Cycles and under Pulse Cauditions. RL-218 Test Equipment for Pulse Transformers. RL-219
Metollurgy, Technical Report of Research Work	Multiple Pulse Generators. RL-218
Conducted at the Metal Powder Laboratory [Stevens], 14-313	Frequency Division with Illucking Oscillator Pulse
[Stevens]. 14-313 Carronion of Coppur, Brass and Alaminum by Gase-	Transformers, RL-329
ous Dielvetries, RL-248	Line Controlled Blocking Oscillator Marker Genera- tor ARO Calibrator, RL-330
The Application of Powdered Iran Materials us	Pulved Oneillatar and Phase Shifter, RL-340
Permeable Dielectries at Microwave Frequencies,	Type J and A Test Unit, RL-343
Ri906 McNally Tubes, see Tules, Velocity-Modulated	Time Fluctuations of a Rotary Spark-Gup Modu-
METEOROLOGY, see Propagation	latar. RL-356
	Muximum Allowable Negative Backswing After Pulses, RL-363
MISCEL ANEOUS	Repart an Western Electric 717A Modulator Type
Clearance for Carbon Brush Investigation [MIT], 14-128	D-180442 and Radio-Frequency Unit Type D- 180452, RL-425
X-Roy Emission from Ruder Equipment, Report of	Reduction of Rudur-Radio Interference from Modu-
Division 14, NDRC [MIT]. 14-157 Mixers, see Crystals, Receivers	lutura. RL-431
Modulation, Frequency, Velocity, etc., sec Tubes,	Analysis of Coulenser Charging in Line Type Modu- lators, Part I. For Linear Reactor Elements.
Theory	RL-44I
MUDILATORS, see also Pulse Transformers	Model 7, Experimental Hydrogen Thyratron Modu-
Roof System Repart, Initial Development, Feb. 15— Apr. 1, 1941. RL-27	lutor, RL-485 Proposed Method for Measuring Instantaneous Mag-
Palsers, Dec. 2, 1940. RL-66	netran Input Impedance with the Aid of a Delay
Palsers, Dec. 27, 1940, BL-67	Network, RL-515
Pulsers, Feb. 1, 1941. RL-68	I'nine Shapes and R-F Spectea for Combinations of
Modulators and Synchronizers, Mar. 25, 1941. R1,-69	Strondery-Carlson Mark I and Mark II Modula-
Modulators, May 11, 1941. Ric 70	tors with 2J22, 2J21, and 725A Magnetrons. RL-518
Report of the Modulator Graup, July 31, 1941.	A Diode-Type Pulse Voltmeter. RL-521
RL-71	Foltage Pulse Rate-of-Rise Mensurements, RL-523

Modulators (Continued)	Midulators (Continsed)
Effect on Cureaut I'ulue of Resistance in Series with	Instruction Manual for Service Modulator Madel 8.
the Magnetron. RL-527	R(_M_131
Model 6 Modulatar Performance Tests, RL-549	Instruction Munsal for Model 6-R (MEW) Modu-
A Survey of High-Vucuum Diodes Uned for Surge-	1910r. RI_M-139
Limiting Operation in Modulators. RL-580	Instruction Manual for Model 7A Hudrogen Thura-
Stability of Magnetrian Operated by Spark Gan	tcon Modulator, RI_M_145
Modulators. RL-620	Instruction Mounal for Model 6 Modulator, RL-M-153
Increasing Stability of Operation of 4J31-35 Mag-	Instructions for Modifying the SCR-584 Modulator
netrons in the AN/CPS-1 System, RL-621	for Use is Aspes Tronsmitters. RL-M-155A
Reduction of Power-Line Noise in Madalators,	Instructions for Modifying the SCR-584 Modulator
RL-034	for Use in Aspen Transmitters. RL-M-155B
The J-2 Modulator Unit. RL-645-5	Instruction Munual for Model 17 Mudulatur,
Discipation in Series Gups and Vallage-Current Rela-	RL-M-187
tionships during the Discharge, RL-682-1	Instruction Manual for Model 20 Laboratory Mode-
Colloquium on Pulse-Forming Networks, October 12,	lator. RL-M-232
1844. RL-692	Operating Instructions for Model 12 Modulatoc.
The Regulation Obtainable in the Operation of a	RL-M-239
Hard Tube Modulator with Magneteon Load.	Modulatue Text, Second Edition. RI-T-15
RL-697	General Lectuce Series on Radar Components.
Calculation of Pulne-Forming Networks Having Slow	RL-T-18
Rates of Valtage Rise. RL-698	MOVING TARGET INDICATION, see also Clutter
Measurements and Waveforms Obtained with SCR-	Radar Detection of Ground Objects from the
598 Modulator. RL-757	Ground, RL-420
Analysis of Line Modulator Behaviar with a Spark-	The Detection of Maring Tocycle among Ground
ing Maynetron Lond. RL-765	Clutter by Coherent Pulse Methods. RL-480
Present States of High Power at S-Band. RL-793	The Observation of R-F Phase in Pulse Radar.
R-F Mechanical Modulator for S-Band. RL-798	RL-481
Division of Voltage Aeross Series Spark Gaps in a	Elimination of Granud Clutter. RL-520
Line-Type Modulatoe, RL-682-2	Pulse Dappler for Detection of Moving Ground
General Characteristics of Enclosed Spark Gaps with	Targets, RL-553
Emphasis on Aluminum Cathode-Type Series Gaps.	A Moving Turget Selector Uning Deflection Moda-
R1682-3	Intion an a Storage Musuie. RL-562
Line-Type Modulatar and HP 10V Magnetras Opera-	A Precision Z Sweep Generator, RL-563
tion at 6 Megamentts, RL-682-6	The Effect of Clutter Fluctuations on MTI, RL-700
Radiation Laboratory Modulatar Summary, RL-829	The Storage of Video Signula on Simple Monaica.
Modulator fue AN/TPS-10 Rudae. RL-997	RL-743
AN/APS-30 Modalator Status. RL-1000	An Experimental MTI System. RL-744
Instruction Manual for B-18 Radar Installation.	MTI for MEW. RL-752
RI-M-100	Supermanie Delay Linea. RL-850
Instruction Manual for Raythron Service Modulator	Mechanical Computer Mechanism for Moving COHO.
WX 400F R. RL-M-100, RL-M-101	RL-900
Instruction Manual for Raytheon Laboratory Modula-	Notes on the Contamination of Mercury by Stainless
tors WX 4054 and WX 4054 A and WX 4054 B.	Steel, RL-935
RL-M-103	A Moving COHO Conversion Unit. RL-975
Instruction Manual for Keperimental Service Mods-	Dynamic-Runge Compression for MT1. RL-1016
lotor Mudel 4, Type 1372, RL-M-111	An Experimental S-Band Airhorne MTI System,
Monual of Operation for Model No. 2 Synchroneupe.	RL-1018
RL-M-112	Preliminary Technical Manual for SCR-584 MTI
Spectrum Analyzer (Type 103) for Pulsed Oscillator	Mudification Kit No. MC-642-AS and Fas Beam
at 3000 Me. RL-M-115	Search Antenna. RL-M-218
Instruction Manual for Pulsed Oscillator, 2000 Mc	MULTIVIBRATORS, see Circuits and Networks
(Model No. 1). RL-M-W7	
Instruction Manual Model P4 Synchroneupe.	NAVIGATION AND MAPPING
RL-M-118	Western Electric D-160448 Input Equipment and
Instruction Manual for Revised Model P4 Synchro-	Western Electric X-61901 Oscilloscope [BTL].
	14-87
scope, RL-M-126	14-87 Long-Range Navigatios Equipment, Microwave Com-
scope, RL-M-126 Instruction Manual for Spectrum Analyzer (Type	14-87 Long-Runge Navigation Equipment, Microwave Committee Prairet No. 3 [West. E. & M. Co.]. 14-88
scope, RL-M-126 Instruction Manual for Spectrum Analyzer (Type 105) for X-Band Pulsed Oscillators and Spectrum	14-87 Long-Runge Navigatios Equipment, Microwave Com- mittee Praject No. 3 [West. E. & M. Co.]. 14-88 Aircraft Pusition Indicating Equipment (Receiving)
scope, RL-M-126 Instruction Manual for Spectrum Analyzer (Type	14-87 Long-Runge Navigation Equipment, Microwave Committee Prairet No. 3 [West. E. & M. Co.]. 14-88

AVIGATION AND MAPPING (Centinued)	NAVIGATION AND MAPPING (Continued)
Instruction Book for Western Klertric D-161131 Re-	A High Resolution K-Band Ship Search Set. RL-576
ceiver and Western Electric D-161132 Indicator far	Simple Computation of Distonce on the Earth's Sur-
a Lung-Range Navigation System [BTL], 14-91	fuce. RL-582
Two Megawatt Transmitters for NDRC Project Na.	Low-Altitude Navigation Antennas Developed in Con-
3 [GE]. 14-92	nretion with AN/APS-10. RL-613
Development of a Stable Non-Cepstal Controlled	The Future of Hyperbolic Nacigation. RL-625
Oscillatoc [U. of Col.]. 14-98	A Microfilm Chart Prajector for Radar Navigation
Crystal Clork Project, Third Progress Report, May 1,	RL-658
1943  Bartel]. 14-145	BUPX (AN/UPN-3, 4, AN/APN-11) Ultra-Portable
Interference of Loran Pulses with Radio Telephone	X-Rand Radar Beacons and Their Tactical Uses.
and Telegraph Reception [BTL]. 14-163	RL-710
Crystal Clock Praject and 10-Ke Oscillator, Pragress	Fight Behavior of the Flux Gate and Gyrasyn Cam-
Report, Aug. 1, 1943 [Bartol]. 14-175	passes and Their Effects on GPI. RL-712
Airborne Loran Equipment [GE]. 14-191	Micco-II. RL-714
Crystal Clock Project and 10-Kr L-C Oscillatoc, Prog-	Calculation of Vertiral Polac Dingrams and Power
ress Report, Oct. 1, 1943  Bartol . 14-193	Gains of Autennas for Airborne Navigotional
Lodar Pulse-Direction-Finding Receiver [RCA].	Radars. RL-750
14-200	AN/APS-10, a Lightweight X-Band Search Set.
Development of a Power Supply and Temperatura	RI,-768
Stabilized Oscillator for the Buttery Operated	The Radar Chart Prajector. RL-920
Lodar Receiver (Emerson Radio and Phonograph).	A Discussion of Plotting Devices for IPPs. RL-1038
14-203	AN/APS-15 Schematics. RL-M-135, RL-M-135H
Characteristics of Simplified Loran Receiving Kanip-	Handbook of Instructions for Radio Set AN/APS-13
ment [RCA]. 14-206	(H2X). RL-M-1350
Development of Airborne Loran Receiver-Indicator, Model LHN-1 [RCA]. 14-207	Lightweight Lorun Transmitter (LLTX), RL-M-158A
Development of Loran Receiver Trainer   RCA .	Haevey 170-T Loran Transmittre Manual, RL-M-162
14-208	Handbook of Instructions for the Preparation of
Crystal Clock Project and 10-Ke L-C Oscillator, Final	Maps for the HEX Supersonic Trainer. RL-M-181
Report, Jan. 1, 1944 [Rartol]. 14-226	Handbook of Procedures for Mobile Charting Units.
Simplified Lorun Receiving Equipment  RCA , 14-228	Air Transportable Loran System. RL-M-183 Preliminary Instructions for the Manual Bearing
A Portable Signal Generator for Loron Receivers	
[RCA]. I4-297	Unit. RL-M-192 Hundbook of Instructions fac the Preparation of
A Converter for 170-Ke Loran Signals [RCA], 14-329	
U. S. Radar Survey, Section 4, Navigational Radar	Mountain Maps far the HIX Supersonic Trainer,
[NDRC]. 14-284	RL-M-205 Instructions for Installation and Muintenance of
Special Mechanical Counter for the Mark III or	
Phase-Shift Laran Indicator  Int. Business Ma-	Wuffle Relief Maps in Ultrasonic Trainers.
chines Corp.], 14-368	RL-M-206
U. S. Radar Survey, Section 4—Navigational Rudar,	Handbook of Operating Instructions for Loran Low Frequency Concerter CV-27/UPN, RL-M-222
Change 1 [NDRC]. 14-455	
An Impraved Type of L-F Loran Transmittee	Handbook of Maintenance Instructions for Lorus
	Low Frequency Converter CY-27/UPN, RL-M-225
[RCA]. 14-458 An Exciter for L-F Loran Transmittee [RCA].	Preliminary Handbook of Operating and Maintenance
14-459	Instructions for Model AN/APA-46 Aircraft Rodar Equipment, RL-M-227
Development of a Power Output Tube for NDRC	
Microwave Section Project Na. 3, Final Report	Hygraph Instruction Maunal, RL-M-230
[RCA]. 14-471	Possible Rudar Solutions to the Problem of Accurate
HaX Range Unit for Navigation and Bombing.	Siting of Field Artillery. RL-S-12
RL-342	Radar Photo Recaunaissance RL-S-13
The Identification of Signals on PPI Photographs	Ground Position Indicator for Rador Navigation und
for the Construction of Radar Maps, RI,449	Bombing. RL-S-19
	Termination Report on Rudae Photo Reconnaissance
Elements of Loran. RL-499 Precise Navigation by Mrans of a Radar Man Super-	Project. RL-S-34
	NETWORKS, see Circuits and Networks
Class on 1	NIGHT FIGHTING, AFRIAL
SM Radur.  RL-506 Adjustment of Loran Antenna and Antenna Con-	
pling Units at Frequencies Between 1700 and 2000	Report on Night Fightee Pursuits. RL-117
Kilocycles. RL-511	New Approach Procedure for Night Fighting. RL-178

L-576 Ser-L-582

Con-L-615 L-625 ation, L-658 rtable Uses, L-710 Com-L-712 L-714 L-750 t. 768 L-925 1038 135B S-155

> 58A -162 z of -181 nits, -183 ring -192 of er. -205

-206 Low -222 pran -225 nnee dar -227 -230 rats S-12 S-13 and S-19

-34

117

110000000000000000000000000000000000000	P NADIATION LABORATORY REPORTS [
GHT FIGHTING (Continued)	Noise (Continued)
New Method of Night Fighting (abridged edition of	
178). RL-178a	The Detection of Moving Turgets among Groun
Statistical Trentment of Certain Phases of Aerial	Clutter by Cohernut Patne Methods. RL-48
Cambat. RL-181	Operation of IN23 Countil Rectifiers. R1-40
	The Effect on Noise Figure of Placing the train Co.
Effect of Routing Evanive Action on the Colculated	trol on the First I-F Stage. RL-51
Approach Procedure. RL-187	Reduction of Power Line Noise in Modulators.
Use of the Range Clock in Night Fighting with AI	RL-6:
Equipment. RL-204	A Feedbark Circuit for Measuring Output Noi
DISE, see also Interlerence	Ratio of Crystal Rectifiers. RL-80
Theory of Naise is Conductors, Scali-Conductors, and Crustul Restifiers [Purdue]. 14-133	Receiver Name Figures and Their Mrasurement. RL-7-
Noise Redartion by Delayed Feed-Back [RCA], 14-146	Fluctuations in the Ketarn Signals from Rando Scatterers, RL-7
	Noise Filtering Properties of Third Detectors.
Theory of Signal to Noise Ratio of Crystal Mixers	
[Cornell]. 14-162	Y-Band San B-ton Management
Crystal Noise us a Fusetion of DC Bias and 20-Me	X-Road Sen-Return Measurements, RL-8
Impedance Mennared with a Diade Noise Source	Mensurements on Noise from Reflex Oscillators.
[Puritie]. 14-167	R18
Noise in Siliena Keetifiers at Low Temperatures [U.	Theory of Naine from the Ruflex Oscillatur. RL-8
ol Pa. , 14-189	1N23 Noise Measuring Set Type 7438. RL-M-1
On the Distribution of the Average Noise Current	1N21 Noine Trater, Type 11044. RL-M-1
in Receivers [Cornell]. 14-305	NOMENCLATURE, see Circuits and Networks
Note on the Mranarement of Noine Temperature  U.	OSCILLATOR CIRCUITS, see Circuits and Networks
of Pa.]. 14-311	
Crystal Audio Noise [U. of Pa.]. 14-387	OSCILLOSCOPES, see Test Equipment
Special Report an Signal-to-Noise Measurements on	PERFORMANCE, see ulso Airborne Radar Performan
Recrience, RL-108	Ground Radar Performance, Shipborne Radar P
Special Report on Compacation Signal Name Mens-	lormunce
arevients on Coustal Mixers and Grounded Grid	Runf Systems Reports, August 26, 1941 to Septemb
Tube Mixeen. RL-110	24, 1941. RL
Noise and the Reception of Palues, RL-115	Comparison of Performance of 10-Cm and 3-Cm A
Coincidence Method of Noise Reduction. RL-119	canced Development Systems. R1_3
	Performance of 3-Cm System (D2-1). RL-3
	Recent Performance of the 3-Cm Advanced Develop
Report of Section VI, March 4, to March 22, 1941.	ment System (D2-1). R1-3
R1138	Microwave Test Signals, R1,-10
Kinetic Derication of the Thermal Noise Formula.	Rudur R-F Test Points, R1S-
RL-191	Operation for Peak Performance. RL-S.
Statistics of Circuit Noise. RL-192	2022
Comparison Between Signal and Noise. RL-193	Photography
Noise Measurements on Microwave Coarreters.	Adenneed Design for Radar Photography [Fn
RL-289 Theory of Noise Measurements on Crystals as Fre-	chād . 14-5
quency Converters. R1-293	Photogrophy of Sucreasive Pulse Reflections from
Use of the Temperature-Limited Diode in Measure-	Moving Target, RL-S
ments of Noine Figures of Crystain. RL-294	Photographs of the PPI Indicator Tube with 3-0
	AS1' over 31'ater and Land. RL-3
Notes on Mensurement of Noise, Gain and Noise Figures of Converters. RL-295	Photographic Polarization Tests. RL-3
	Tokys H2X Photographs. Comparizon of Operation
Noise Temperaturs Mensuring Apparatus for Crys-	PPI Photographs with PPI Predictions of t
tals as 10,000 to 30 Meyuryele Converters. RL-296	Ulteannaic Radar Troiner, RL-7
Noise from Local Oscillators. RL-304	A Report on ASD-1 B-Scope Photography. RL-4
Action of Linear Detector on Signals in the Presence of Noise. RL-305	The Identification of Signals on PPI Photograp for the Construction of Radar Maps. RL-4
Definition of Maximum Range on Aircraft and Ita	Comparative Photographs of 1- and 5-Microscen
Quantitative Determination. R1353	
Performance of 3-Cm System (D2-1). RL-355	The state of the s
	PGI (Photographic Projection PPI). RL-7
The second secon	Instruction Manual for Automatic II2X Camer
Simplified Meannrement of Receiver Sensitivities (S-	Model A. RL-M-1
Band Noise Source). RL-443 Theory of Rundsm Processes. RL-454	Tempocacy Instruction Manuel for Antometic Rud Camera, Model B. RL-M-164

88 PA	kt H
PHOTICHAPHY (Continued)	Potentiometers
Temporary Instruction Manual for Automatic H2X	Plan Position Indicator Using a Sinusoidal Poten timmeter. RL-31
Custicial intouch so	tiameter. RL-81 Linearity of Standard Wire-Wound Volume-Control
Radar Photo Reconnaissance, RL-S-13 Termination Report on Radar Photo Reconnaissance	Tape Potentiameters. RL-31
Project. RL-S-34	Specification of Performance Tests for PPI Sina
PPI Photographs from AEW. RL-S-51	sould Potentiometers Types RL10E and RL14.
Type Test of the Fairchild Radur Recording Cam-	RL-310
eros. RL-S-66	Present Status of Potentiometer Projects in the
PLOTTING SYSTEMS, see telso Navigation and Mapping	Rudiation Laboratory. RL-318
Semi-Automatic Tuctival Plotting Board. RL-467	Potentiometer Type RL-B for Azimuth and Elevation
The SCR-584 Plotting Tuble System. RL-595	Indiration on Magnetically Deflected Cathode Raj Tubes. RL-409
Additional Modification, Culibration, and Plotting	Sinusuidal Potentiometera Types RL16CB, RL16CD
Procedures for RC-294 Plattiny Equipment.	RL10E, and RL14. RL-423
RL-M-235	Sinusoidal Potentiumeters Types RL11, RL15, RL204.
Release Point Indicator Used in Conjunction with	RL-459
RC-294. RL-S-47	Mutching Resistunce Curves by Means of Two Linear
The Manuel Plotting System RC-205. RL-S-62	Ganged Potentiometers and a Three-Terminal Re-
PLUMBING, see Transmission Lines and Test Equip-	sistence Network, RL-616
ment	Life Test of Contact Muterial on Stundard Linear
Polarization	Wire-Wound Potentiometers, RL-617 The RL 270 Series of Precision Potentiometers,
Relation of Radar Runge to Frequency and Polariza-	RL-864
tion. RL-18	Sine Potentiometer Tester. RL-940
Change of Polarisation as means of Gap Filling.	
RL-19	FOWER EQUIPMENT AND POWER SUPPLIES
Microwave Transmission. RL-121	Investigation of Power Supply Requirements as a
Polorization Effects in a Circular Wave Guide at	Function of Fature Rudur Circuit Developments
3-Cm. RL-162 Rador Target Controls. RL-375	[NDRC], 14-134 Power Supply for Air-Borne Rudar Equipment
Rador Target Contront, RL-375 Photogrophic Polarization Tests, RL-382	[NDRC]. Advisorate Manuar Equipment
The Depolarization of Microwaves, RL-458	Analysis of Commutation of Direct Current Machines
Preliminary Mensurements of 10-Cm Reflection Co-	at High Altitudes, Nov. 28, 1942 [NDRC]. 14-136
efficients of Land and Sea at Small Grasiny Angica.	Simulated High-Altitude Brush Testing Equipment
RL-478	[NDRC]. 14-137
Rudome Bulletin Number 8, X-Bund Sondwiches at	Analysia of Commutation of Direct Current Ma-
Variable Angles of Incidence. RL-483-8	ehines at High Altitudes, Apr. 15, 1943 [NDRC]. 14-139
Rudome Bulletin Number 13, Elliptical Polarisation	Development of a Power Supply and Temperature
Produced by Streamlined Radomes, RL-483-13	Stubilized Oscillator for the Battery Operated
Radome Bulletin Number 16, Some Electrical Aspects of Microwece Sundwich Radome Design. RL-483-16	Lodur Receiver [Emerson Radio and Phonograph].
X-Ihind Horizontally Polarized Non-Directional An-	14-203
tenuas. RL-489	Development of Three-Phase Aircraft Allernator
S-Band Horizontally Polarized Non-Directional An-	[Leland Electric Co.]. 14-287
tennus. RL-517	Technical Report of Research Work Conducted at Mutul Powder Laboratory [Stevens], 14-313
Polarization Studies at S and X Frequencies, RL-536	Midul Powder Lakoratory [Stevens]. 14-313 Constancy of EMF's of Dry Batteries (B1) [Cor-
S-Bund Vertically Polurized Non-Directional An-	nell]. 14-537
tennas. RL-423	Thyrite Bridge Controlled Voltage Regulator, RL-525
Ocer-Water Tests of S-Band Early Wurning for	Wave Form Analysis. RL-561
Shipa, Vertical Covarage of the CXHR (SCI) Search System, RL-703	Stubilized High Voltage Supply. RL-565
Altitude Return in the AN/APS-6, RL-706	Nonlinear Networks as Voltage Regulators. RL-711
Broad-Bund Antenna for Circular Polarization.	Electronic Line Voltage Stabilizers, RL-1042
RL-769	Gracrul Lecture Series on Radar Components.
Normal Firing K-Baud Array with Transverse	RL-T-18
Polarization. RL-771	Pressurization
Benear Tests with AN/APS-6. RL-S-16	X-Raul Low-Pressure Tests. RL-241
Flight Tests on AN/APS-6A. RL-S-25	X-Band Mensurements at Low Pressures. RL-250
CONFID	ENTIAL

	A STANDART REPORTS 69
PRESSURIZATION (Continued)	Propagation (Continued)
The Cooling of Pressure Tight Containers. RL-46	2 Preliminary Measurements of 10-Cm Reflection Cu-
Present Status of High Power at S-Band, RL-79	officients of Land and Sea at Small Grazing
PROGRESS REPORTS, see General Progress Reports	Radome Bulletin Number 4, Transmission and Re-
PROPAGATION	flection of Single Plane Sheets. RL-483-4
General Propagation	Radome Bulletin Number 11, Electrical Properties
Propagation of 10-Centimeter Woves on a 52-Mil	
Optical Path Over Land, The Correlation of	
Signal Patterns with Rudiosande Data [Was]	Radome Bulletin Number 12, Trannaission and Re- flection of Parallel Plans Sheets, RL-483-12
lagton State College  . 14-15	Darlance Dellette Marie and marie and a
Radiotelephane Communication on 3000 Meyneyele [Washington State College], 14-18	Aspects of Microwave Sundwich Radome Design.
Propagation of Signals on 45.1, 474, and 2800 M	Rl-483-16
from Empire State Building to Hamppage an	
Biverhead, Long Island, July 20, 1943 [RCA] 14-17	Nomograms for Computation of Modified Index of
The Propagation of 10-Centimeter Waves or	Further Meanucements of 3- and 10-Cm Reflection
Land Paths of 14, 52, and 112 Miles [Washing ton State College]. 14-20	Coefficients of Sea Water at Small Grazing
Propagation of 10-Centimeter Waves over an L	Preliminary Percet on the Fluctuations of Pader
land Lake, Correlated with Meteorologic	Signals, Report on the Pracrations by Editor
Sounding [Washington State College], 14-21	Vicen X. RL-407
Propugation of Signula on 45.1, 474, and 2800 A	Dielectric Properties of Water and Ice at K-Roud.
from Empire State Building to Hauppage as	R1644
Riverhead, Long Island, New York, July 31, 19- [RCA]. 14-29	Part I. Preliminary Analysis of Rudio and Rador
Rolational Line Width in the Absorption Spectra	Measurements. RL-649
of Atmanpherie Water Vayar JU, of Mich., 14-31	Further Theoretical Investigations on the Atmos-
Magnetrons for Production of Centimeter Was	Theory of Charneteristic Functions in Problems of
length Radiation, also Absorption of Such Radi	1- Annualous Propagation. RL-686
tion in Water Vapur [CRL]. 14-50	The Absorution of One-Holf Centimeter Electro-
Microwave Interference Patterns, RL-	3 magnetic Waves in Oxugen. RL-684
Transmission on 3,000 Me over Sea Water. RL-	- Field Phichard Contonies in theneralized Contac-
Transmission on 100 Me over Sea Woter. RL-	mires, KL-102
Transmission on 200 Me over Sea Water. RL- Transmission on 500 Me over Sea Water. RL-	Over-Willier Trains of 12-Daniel Brains II arming Jon
Transmission on 500 Me over Sea Water. RL: Change of Polarization as Means of Gap Filling. RL:	Search System, RL-763
Properties of the Diffracted Wave Field Intensit	ZETTIME REINTE III INC 2127/112 II-DI
RI-	
Radar Height Finding. RI-	21 An Aerial Investigation of K-Band Radar Per-
Transmission at Low Altitudes over Sea Water. RL-	formouse under Tronical Atmospheric Combi-
Field Intensity Formulas. RL-	The Relation Between Absorption and the Fre-
Consideration Affecting Choice of Wacciength. RL-1:	avence Devendence of Refraction. RL-735
Microwave Tronsmission. RL-1	Source Padure RI-741
Atmospheric Absurption of Microwaves. RL-1	15 Physications in the Polymu Signals from Randow
General Relations Determining the Runge of Radar System, RL-1	Scatterers. RL-773
An Introduction to Microwave Propayation. RL-4	Effects of Clouds and Rain on K-Band Airborne BB Railar, RL-786
The Effect of Atmospheric Refraction on Sho Rudio Waves, RL-4	rt Methods of Calculating Characteristic Values for 47 Bilineur M-Curves. RL-795
Simplified Methods of Field Intensity Calculatio	
in the Interference Region. RL-4	
Propagation over Short Paths and Rough Terra	in Propagation in on Atmosphere Containing a Dis-
at 200 Me/s, RL-4	

	Propagation (Continued)
HPAGATION (Cantinued)	Effects of Clouds and Rain on K-Band Airborne
The Aksorption of Atmospheric Water-Voper in the K-Bond Region. RL-1002	Rudar. RI-780
	A Theoretical and Experimental Study of Radas
A Procedure fur Statistical Analysis of Depth Soundings. RL-S-21	Ground Return. RL-1024
Soundings. RL-S-21 General Lecture Series an Rodar Components.	A Theoretical Treatment of Radar Turget Return,
RL-T-18	Part 11. RL-1049
Meteorology	The So-Called Stundard Target. RL-S-43
The Contice Radiosande and Wired Sonde Tech-	Parakoloid Diffraction Patterns from the Stoud-
niques for Detailed Low-Level Meteocological	point of Physical Option. RL-T-7
Sounding [Washington State College]. 14-192 X-Band Low Pressure Tests. RL-241	PROPELLER MODULATION, see also Absorbent Materials,
X-Band Low Pressure Tests, RL-241 X-Band Measurements of Low Pressure. RL-250	Dielectries, and 1FF  Modulation of Rudae Signals from Airplanes, RL-914
Rudar Echoes from Atmospheric Phenamena. RL-172	Preliminary Maintenance and Operating Instructions for AN/APX-15. RI_M-200
Climate in Relation to Micraware Radar Propaga-	Detection of Propeller and Sambo Modulations.
tion in Panama. RL-476	RL-S-10
Insteaments and Methads for Measuring Tempera-	
thee and Hamidity in the Lower Atmosphere.	PULSE LENGTH AND RATE, SHAPE
RL-487	Comparative Photographs of 1- and 5-Microsecond
Qualitatice Survey of Meteorological Factors	Signals. RL-492
Affecting Microwave Propagation. RI,-488	Pulse-Length Discrimination in Beocons. RL-510
Miccowave Transmission arer Water and Land	Voltage Pulso Rate-of-Rise Measurements. RL-523
under Various Meteorological Conditions.	Effect of Pulse Length on System Performance and
RI,-547	Operation, RL-571
Measurements of the Attenuation of K-Bood	Effects of Line and Cathode-Follower Terminations
Haves by Rain. RL-603	on Pulne Shape. RL-616
Over-Water Transmission Measurements, 1944.	Experiments in Microwars Dreakdown. RL-731
Port I, Peeliminary Analysis of Radio and	Short Pulse Techniques for High Definition Radar
Radar Meusurements. RL-640	Systems. RL-912
Radar Rehoes from Peeelpitution Loyers, RL-680	Pulse Length Selector and Multiple Pulse Decoder.
Caryeta	RL-917
Relation of Rudar Range to Frequency and Polar-	Pulse Transformers, see also Transformers
izatian. RL-18	Palse Transformers, Final Report [Utah Radio].
Rador Rehoes from Periseopes. RL-171	14-447
Radar Echoca from Atmaspheric Phenomena.	Leakage Inductance and Distributed Capacitance of
RI-173	Various Types of Pulse Transformer Windings.
Microwave Radar Reflections. RL-195 Possible Measurement of Radac Rehors by Use of	RL-463
Madel Targets, RL-196	Pulso Transformer Core Material Measurements.
Synthesis of Miccowavo Diffraction Patterns with	RL-470
Application to Cae <sup>2</sup> ⊕ Patterns. RL-272	Colloquium on Pulse Transformer Design, November 3-4, 1943. RL-498
Comparison of Reflectivities of Approximately	3-4, 1943. RL-498 Pulse Tronsformers Designed at Radiation Labora-
Similar Plastic and Metal Airplanes. RL-384	tory and Produced by General Electric Company
Tests on Radar Echoes from Cylinders. RL-378	and Westinghouss Electric and Manufacturing
Over-Water Observations at X and S Frequencies	Сощину. RL-513
on Surface Targets. RL-401	High-Ambient Life Test of an Oil-Filled Pulse
On the Fluctuations in Signals Returned by Many	Transfarmer, RL-514
Independently Moving Scatterers. RL-465	The Evaluation of an Equivalent Circuit for a Pulse
On the Appearance of the A-Scape When the Pulno	Transformer. RL-545
Travels Through a Homageneous Distribution	Analysis of the Influence of Pulse Transformers on
of Scatterers. RL-466	Current Pulse Shope, RL-546
Reflections from Smooth Curved Surfaces. RL-661	A Method of Virtual Displacements for Electrical
Theory of Rodar Return from the Schnorkel.	Systems with Applications to Pulse Transformers.
RL-671	RL-618
Radar Echaes from Peccipitation Layers. RL-689	Ruergy Loss in Copper under Pulse Conditions.
Finetuations of Radar Echoes. RL-700	RL-619
A Theoretical Treatment of Radar Target Return.	Influences of Pulse Transformer Design on 4J31-35
RL-719	Magnetron Stability. RL-622
Rehoes from Teanical Rain on X-Band Airborns	Equivalent Circuit of a Pulse Transformer Core.
Radar, RL-728	RL-666
CONFID	ENTIAL

	THE PARTY IN THE PROPERTY OF T
PULSE TRANSFORMERS (Continued)	RADOMES (Continued)
Pulse Transformer Committee Standard Test Meth-	The same of the sa
ods for Palse Transformer Cores. RL-722	Dielectric Carolante and Los Tonger RL-483-22
Equivalent Network for the 242-RW Pulse Trans-	Dielectric Cunstants and Loss Tangents of Radame Materials, RL-483-25
farmer Based on the Method of Virtual Displace-	
ments. RL-734	Kiestrieul Test Methods for Radomes. RL-483-26 RANGE, see also Propagation
Palse Transformer Committee, Proposed Busic Speci-	
ficutions for Pulse Truesformers. RL-881	Range Trucking Circuit with Position Memory [Cor- nell]. 14-160
Radiation Laboratory Pulse Transformer Designs.	1.
RL-882	Range Tracking Circuit with Velocity Memory (Cor- nell). 14-161
RADAR COUNTERMEASURES [RCM], see Countermeasures	
RADIO-FREQUENCY HEADS, see R-F Heads	Regarts of Tests on Resonant Runge Follow-Up Sys- tem [Fairchild]. 14-240
CUltin-Lumdenaca manon see re-L mentile	
RADOMEN	Gavernment Rudar Patent Program, Technical Re-
Design and Test of Project Engle Airfoil   Douglas  .	port No. 2—Precise Range Measurement und Tracking [NDRC]. 14-339
14-290	
Special Report on Transmission Characteristics of	Errura in Runge Meanneement with a Circular Sweep, RL-9
Suggested Airplane None Materials. RL-144	
Design Characteristics of Spinuer Housing Materials,	Relation of Radar Rouge to Frequency and Polariza-
R1,-215	tion. RL-18
Radome Bulletin Number 1. RL-483-I	Consideration Affecting Choice of Wavelength.
Radome Bulletin Number 2, An Outline of the Elec-	RL-120
trical Properties of Radomes. RL-483-2	Scattering of 10-Cm Radiation by a Model Airplane.
Radome Bulletin Number 3, lee Formation on Ship-	RL-150
borne Rudowes, RL-483-3	Radar Rebaes from Periscopes. RL-171
Radome Bulletin Number 4, Transmission and Re-	Atmospherie Absorption of Microscures. RL-175
flection of Single Plane Sheets. RL-483-4	General Relations Determining the Range of a Radar
Radame Bulletin Number 5, Recent Dielectric Cou-	System. RL-186
stant and Loss Tangent Measurements. RL-483-5	Microwave Radar Reflections. RL-195
Rudame Bulletin Number 6, Radames and System	Possible Measurement of Radar Echoes by Use of Madel Turgets. RL-196
Performance, RL-483-6	
Radame Bulletin, Number 7, The Measurement of	Precision Timing Calibrator and Range Mensuring Sustem. RL-319
High Reflections at Low Power, RL-483-7	
Radame Bulletin Number 8, X-Band Sandwiches at	Precision Delay Multiribrator fac Range Measuring Suntem. RL-320
Variable Angles of Incidence. RL-483-8	System. RL-320 Medium Precision Self-Synchronous Range Circuit
Radome Bulletin Number 9, The Matching of High	Model 4. RL-321
Standing Wave Ratios. RL-483-9	Circular Sweep Precision Range System Model 4.
Radame Bulletin Number 10, The Measurement of	RL-322
Small Reflections. RL-483-10	Medium Precision, Self-Synchronoue Automatic
Radome Bulletin Number 13, Electrical Properties	Runge Tracking Circuit. RL-323
of Double-Wall and Sandwich Radonics, RL-483-11	Photoelectric Automatic Range Tracking Unit.
Rudome Bulletin Number 12, Transmission and Re-	RL-324
flection of Parallel Plane Sheets. RL-483-12	Simulified Circular-Sweep Range System. RL-325
Radome Bulletin Number 13, Elliptical Polacization	Antigireroft Artillery Board Test on the Simplified
Praduced by Streamlined Radomes RL-483-13	Circular Sween Range. RL-326
Radome Bulletin Number 14, An Investigation of R-F	Hand Radar Ranging Circuit. RL-327
Probes. RL-483-14	Errors in Circular Sweeps Due to Decentering and
Radome Bulletin Number 15, The Measurement of Di-	Ellipticity of Circle, RL-328
electric Constants in the One-Centimeter Band.	Line Controlled Blocking Oscillator Marker Gen-
RL-483-15	erator A.R.O. Calibeator. RL-330
Radome Bulletin Number 16, Some Electrical Aspects	A.R.O. Rouge Follow-up Unit. RL-331
of Microwave Sandwich Rudome Design. RL-483-10	A.R.O. Runge Unit, RL-332
Rodone Bulletin Number 17, Current Progress on	
R-F Research. RL-483-17	202 titles 22 Cities in 197
Radome Bulletin Number 18, The Dependence of	Delayed Sweep for SCR-582-X. RL-337
Magnetran Pulling on Rudome Shape and Orienta-	A Condenser Phase Shifter Range Circuit with Sine
tion. RL-483-18	Wave Tracking Suitable for Microscove Height
Radome Bulletin Number 19, Dielectric Constant and	Finding Stations. RL-339
Long Tangent Computation. RL-483-19	Palned Oscillator and Phase Shifter. RL-340
Rodome Wall Reflections at Variable Angles of Inci-	Automatic Range and Azimuth Tracking While
denee. RL-483-20	Seanning. RL-341

ne 80 nr 24, 49 43 d-7 is, 14 ns 00 10 11 rs 00 17 rs 7

ANGE (Continued)	RECEIVERS (Continued)  A 5,000-Me Receiver Using Velocity Modulation Tubes
H2X Range Unit for Navigation and Bombing.	
RL-342	Type ZP-439, Final Report [GE]. 14-432
Type J and A Test Unit. RL-343	Magnetrons and Detector Beert-Oscillator Receivers
Definition of Maximum Range on Aircraft and Ite	with Record of Material Furreished [BTL], 14-450
Quantitative Determination. RL-353	Roof System Report, Initial Development, Feb. 15 to
Tests on Radar Echoes from Cylinders. RL-378	Apr. 1, 1941. RL-37
Survey of 10-Cm Radar Installation in PBM-1 Flying	Receivers, Dec. 2, 1940. RL-100
Boat, RL-383	Receivers, Dec. 20, 1940. RL-101
Comparison of Reflectivities of Approximately Simi-	Receivers and T-R Boxes, Feb. 4, 1941. RL-102
lar Plastic and Metal Airplanes. RL-384	Receivers, T-R Boxes, Measurements, Feb. 4-Mar.
An Introduction to Microwave Propagation. RL-496	28, 1941. RL-103
Range Height Indicator. RL-418	Receivers, Aug. I, 1941. RL-104
The Range Calculator, RL-497	Visit to the Bell Telephone Lastroratories. RL-105
A Condenser Phase Shifter Range Unit with Sine	Special Repart on Receivers, June 24, 1941. RL-106
Wave Tracking for AN/TPG-1, AN/FPG-1,	Special Report on Tuning Indicators and Automatic
SCR-698, RL-516	Tuning Systems. RL-107
A Range-Measuring System Using an RC Linear	Special Report on Signal-to-Noine Measurements on
Sweep, RL-540	Reneivers, Sept. 29, 1941. RL-108
A Precision Self-Synchronous Range System for	Noise and the Reception of Pulmes. RL-115
P <sup>2</sup> I. RL-573	Ideal Frequency Response of a Receiver for Square
Medium Precision Range System for CXGQ (Project	Pulnes. RL-125
Henry). RL-579	Response of a Non-Lineur Device to Noise. RL-129
Siting and Range of Microwave Heacons. RL-590	Conference an Standardisation of Intermediate Fre-
A "Runge Only" Set for "Close-In Seriny," RL-598	quency. RL-283
Comparison of Theoretical and Experimental Re-	Preliminary Report on a 10-Crix Super-Regenerative
quirements for Micromove Brucon Transmitter	Receiver. RL-284
Power and Receiver Sensitivity, RL-627	Impulse and Square-Pulse Rengerance of Various Fil-
Vertical Coverage of a 1\%-Ft x 5-Ft Antenna De-	ters. RL-285
signed for SG-3 (Experimental Data Obtained	A 30-Me Schering Bridge. RL-301
with an SNB Aircraft as Target). RL-630 A/R Range Scope. RL-755	A Video Deluy Line. RL-302
A/R Range Scope.         RL-755           AN/APG-21 (Terry).         RL-794	Action of Linear Detector on Sigraals in the Presence
	of Noine. RL-305
Range Accuracy of AN/APG-5 (ARO). RL-820 Range and Tracking Accuracy of AN/APG-15B.	The Radiation Laboratory S-Barnel Amplifier, (Pre-
RL-875	liminary Report). RL-306
Falcon System Munual, RL-M-152A	A 10-Me Wide IF Amplifier, RL-307
AN/APG-13 Fairon System Manual, RL-M-152B	Low-Level Crystal Detectors, Effect of Heat and
AN/APG-13 System Munual. RL-M-152C	Cold. RL-440
Operating Instructions for Sween Calibratur, Model	Simplified Measurement of Receiver Sensitivities
B. RI-M-188	(S-Rand Noise Source). RL-443
General Description, Special Installation Require-	Skirlding of Microwave Receiver & Against Interfer-
menta, and Mounting Dimensions of AN/APG-5	ence at Intermediate Frequencies. RL-471
(ARO) Airborne Range Only Equipment, RL-S-6	Lighthouse Tube Superregenerative Receivers.
Preliminary Report on Single Aircraft Target	RL-484
Ronges of AEW. R1S-37	A 60-Me Parallel Schering Bridge. RL-558
Radar Components that Affect Runge. RL-S-73	Compurison of Theoretical and Experimental Re-
	quirements for Mirrowave Besteon Transmitter
ANGE TABLES, see Bomking and Ballistics	Power and Receiver Sensitivity. RL-627
CM, see Countermeasures	Crystal Detvetors and the Crystal-V'ideo Receiver.
ECEIVERS, see also Amplifiers	RL-638
Aircraft Position Indicating Equipment (Receiving)	Law Noise Ruplacement Preamplifier for the SCR-
[RCA]. 14-89	584 (BC-1408). RL-699
Instruction Book for Western Electric D-161131	Synthetic Radar Echoen in the Presence of Jamming.
Receiver and Western Electric D-161132 Indicator	RL-708
for a Long Range Navigation System [BTL], 14-91	A Wide-Excursion Frequency-Mockeelated Alignment
Ladar Palse-Direction-Finding Receiver [RCA].	Oscillator or Wobbulator. RL-738
A THE STATE OF A CHANGE ACCURED A LEGAL I.	
14-200	Recuter Notice Figures and Their Alenaurement
	Receiver Noise Figures and Their Measurement.  RL-746
14-200	Receiver Noise Figures and Their Measurement.  RL-746  An Electronic Frequency Stabilizertion System for

Tubes 4-432 ivers 4-450

484 558 Reterr 527

538 7R-599 ng. 108 ent 138 40 for 15

RECEIVERS (Continued)	RELAY RADAR (Continued)
Detector Canrollation Error as a Function of Currier	An X-Band Frequency Modulated Relay System for
Frequescy. RL-859	Vidro Frequencira, RL-977
Distortion in X-Hand Detrutors, RL-956	A Symphronization System for Ground Rador Reloy.
Notes on MTI Receivers. RL-1010	RL-978
Intermediate Frequency Amplifier Overload Char-	Preliminary Technicol Masnal for AEW.
acteristics. RL-1032	RL-M-180A
Instruction Monual for H-18 Radar Installation.	Preliminary Book of Muintenance Instructions for
RL-M-100	Shipbourd Components of AEH'. RL-M-229
Instruction Manual for B-18 Receiver (Included in	AEW, Airborne Early Warning. RL-S-26
M-100). RL-M-105	AKW, Airborne Karly Warsing (RL-S-20 plus addi-
Operating Instructions for the Model 417 Klyntros	tional material). RL-S-27
for Une an o Local Oscillotor in Rudar Reveivers.	AEW Redford Trials. RL-S-32
RL-M-108	Tactical Use of Delayed PPI Scopes of the AKW
AN/APS-15 Receiver-Indicator Mudified for Ground	System, RL-S-36
Runge Sweepn and Remote Amplifier. RL-M-172A	Preliminary Report an Single Aircroft Target
Unndhook of Operating Instructions for Lorun Low	Ranges of AKW. RL-S-37
Frequency Converter CV-27/UPN. RL-M-222	PVI Photographs from AEW. RL-S-51
Handbook of Maintenners Instructions for Lorus Luse	Anti-Clatter Circuits for AKW, RL-S-52
Frequency Converter CV-27/UPN, RL-M-225	Physican Internation on Common Property (Date
Same General Micromave Auti-Jum Design Can-	REMOTH INDICATION AND CONTROL SYSTEMS (Data
siderations and Performance of a Special Receiver.	transmission servos, synchros, etc.)
RIS-8	Synchro Test Kanipment and Test Procedure, RL-43
Auti-cintur Circuits fue AEW. RL-S-52	Amplilyne Servo for SCR-598 Surfuse Fire Costro
General Lecture Series on Radar Camponents.	Set. RL-43
R1T-18	A One Tube, One-Snlaya Sertur-Sconner. RL-44
REFERENCE (Bibliographies, Nomenclature, Tables, etc.)	Tentu on a Milli Oil Gear and an Amulidyar Serve
	fue the SCR-598 Cantrol Problem. RL-40-
Index of Divinion 14, NDRC Reports, Other thou	Semi-Antomatic Tartical Plotting Board. RL-40
Rudiation Laboratory Reports [NDRC]. 14-250	Remote Position Control by Direct Frequency Varia
Division 14 Contrart List, June 1, 1944 [NDRC].	tion, RL-48
14-270	Renults of Tents Performed on "Synchro" Units on
U. S. Rudar Surery, Sertion 7—Nomenclature Index	Syntems. RL-49
[NDRC]. 14-393	A Hard Tube Servo Amplifier for Fractional Horse
U. S. Rudar Survey, Sention 7—Nomenclature Index,	power DC Matora, RL-53
Chonyr 1 [NDRC], 14-574	Serves with Torque Saturation Part 1. RL-551
Index of Division 14, NDRC, Reports, other thou	Servon with Torque Saturation Part II. RL-593
Radiotion Laboratory Reports, First Supplement INDRCL Mar. I. 1946. 14-583	The SCR-585 Plotting Toble System. RL-590 OA-2H Serve Adapter. RL-645-1
[],	
iming of Regulor Reports, Trats, and Manuels, Janu- ary 1944. RL-400	Q1-2 and Q-3 Servo Amplifier. RL-645-1 S-2, S-2B, S-4, S-4B Motor Costrol Units. RL-645-1
Continuation of Index of Regular Reports, Special	
Repacts, Masuals, and Texts, Nov. 12, 1944. RL-800	On Servos with Palsed Error Dota, RL-72 Tieg Proposed Methods of Errording the Position of
	A Moving Link Crob. RL-73
Castinuation of Index of Regular Reports, Special	그 이렇게 하면 하면 하면 하는 것이 하면 하는 것이 되었다면 하는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다면 하는 것이 없다면 하는 것이 없다면 하는 것이다면 하는 것이
Reports, Manuals and Trats, Mar. 7, 1946. RL-1083	
	Allynment Procedure for Cadillac Airbarne Synchro Suntem. RL-M-22
Glossicy of Termin Used in Connection with Rudia-	
tion Imporatory Radar. RL-M-144	Secon Generator Life Tests. RL-S-1.
Tubles of Fourier Transforms of Fourier Series, Power Series, and Polynomials, Rt-S-58	R-F HEADS
Power Series, and Polynomials. RL-S-58	The K-Boul R-F Hrad, Type No. 3, Nacy Model RT
RELAY RADAR	63/APS, British Model 110 DB/206, Instruction
	Buok No. 77 [Sylouniu]. 14-49
Report of Radio Relaying of Radar Signals [NBC- RCA]. 14-243	Development and Production of 50 K-Band R-F Head
A Methad for Relay Radar PPI Symphronization.	(11.)
RL-505	Lighthouse Tuke Trassmitter-Receiver LHTR Mk I
Flight Tents of Block I Relay Rudar System. RL-727	RL-42
Flight Tests of AKW Block III Relay Link. RL-739	Final Report as SMTR. RL-55:
AEW Bluck III Relay Antenna. RL-845	A "Rauge Only" Set for "Clone-In Seeing." RL-591
The second secon	The control of the co

R.F. Heads (Continued) G. E. GL2C40 Tont Grid Lighthouse Tuben. R1800 AN/APS-31/33 R-F Unit. RL-880 AN/APQ-34 R-F Head. RL-889 Impraved R-F System for the Transmitter-Receiver Unit of the APQ-13. RL-905 One Knuh Tunuhle X-Bund R-F Head. RL-1019 Mannal for Fighter Tail-Warning Equipment. Replacement Pressurized R-F Unit for AN/APS-15A.  SCANNING (Continued) Mechanical Resourch Scanner, Mechanical Resourch Scanner, Survey of Foster Scanner Developments. Preliminary Testing of the Houston Co. AN/APS-10 Scanner. Mechanical und Electrical Tests of the Genetic Company Scanner for the AN/AFS test.	RL-S-3 ral Elec -10 Sys RL-S-6
AN/APS-31/38 R-F Unit.  AN/APQ-34 R-F Rend.  AN/APQ-34 R-F Rend.  AN/APS-10B R-F Heud Termination Report. RL-889 Impraved R-F Symtem for the Transmitter-Receiver Unit of the APQ-13.  One Knuk Tunukle X-Bund R-F Head.  Mannal for Fighter Tail-Warning Equipment.  RL-M-138  K-Band Rapid Sean.  Survey of Fouter Seanner Developments.  Preliminary Tenting of the Houston Co.  AN/APS-10 Seanner.  Mechanical und Electricol Tentn of the Gene ten.  RL-M-138	RL-107 peration RL-S-3 ral Elec- 10 Sys RL-S-6
AN/APQ-34 R-F Hend. AN/APQ-34 R-F Hend Termination Report. RL-889 Impraved R-F System for the Transmitter-Receiver Unit of the APQ-13. One Knok Tunukle X-Bund R-F Head, RL-1019 Manual for Fighter Tail-Warning Equipment. RL-M-138 Survey of Fonter Seanner Developments. Preliminary Tenting of the Houston Co. AN/APS-10 Seanner. Mechanical und Electrical Tento of the Gene tric Company Seanner for the AN/APS tem. General Lecture Series on Radar Compone	poratio RL-S-3 ral Elec -10 Sys RL-S-6
AN/TPS-10B R-F Head Termination Report. RL-889 Impraved R-F Syntem for the Transmitter-Receiver Unit of the APQ-13. One Knub Tunuble X-Bund R-F Head. Manual for Fighter Tail-Warning Equipment. RL-M-138 RL-M-138 R-Peliminary Tenting of the Houston Countries of the Houston	RL-S-3 ral Elec -10 Sys RL-S-6
Impraved R-F System for the Transmitter-Receiver Unit of the APQ-13.  One Knuh Tunuhle X-Bund R-F Head. Manual for Fighter Tail-Warning Equipment. RL-M-138  AN/APS-10 Searner.  Mechanical und Electricol Tentn of the Gene Company Searner for the AN/AFS tem.  General Lecture Series on Radar Compone	RL-S-3 ral Elec -10 Sys RL-S-6
Unit of the APQ-13.  One Knuk Tunukle X-Bund R-F Head, RL-1019 Mannal for Fighter Tail-Warning Equipment, RL-M-138  RL-M-138  RL-M-138  Mechanical und Electricol Tentn of the Gene tric Company Scanner for the AN/AFS tent.  General Lecture Series on Radar Components	-10 Sys RL-S-6
One Knuh Tunuhle X-Bund R-F Head, RL-1019 Mannal for Fighter Tail-Warning Equipment, RL-M-138  tric Company Scanner for the AN/AFS tem, General Lecture Series on Radar Compon	RL-S-6
Mannal for Fighter Tail-Warning Equipment, tem.  RL-M-138 General Lecture Series on Radar Compon	RL-S-6
RL-M-138 General Lecture Series on Radar Compon	
	entn.
Replacement Presentized R-P Can for An (Al v-10A)	RL-T-1
RL-M-210 SELSYNS, SERVOS, SYNCHROS, see also Remote	1
SCANNING, nee also Antennas and Indicators tion and Control Systems	Indica
AIA-1 Seanner Development Program Completion Final Report, Including the Design of Strokin	-
Report [Dalmo Victor]. 14-199 for a Hydraulic Servomechanism [MIT].	14-279
Two Motor-Driven Gun Turrets [GE]. 14-230 Special Report on Data Transmission by M. Design of "Fig. Restur" Semestry Asterna for the Selayus.	
Design of Lagy Menter Seaming America for the	RL-6
Eagle Radar Bombeight and Construction of a Mudel 11nt Projectic Corp. 1. 14-312 Thycatron Serve Control Circuit for Spinner	RL-13
the state of the s	
2222-1 Milliants Secretalization I softman 7 2081-ou vec.	
port, Aug. 14, 1944 [Dalmo Victur], 14-321	RL-285
Radar Seanner Development Pragram, Progress Re- Servomechaniums.	RL-372
port, Sept. 30, 1944 [Dalmo Victor]. 14-301 Development of a Flexible Relay Servome	
Precision Airecaft Scanners [GE]. 14-410 und Application to Sector Scanning Spins	
Ranar Seamer Decelopment Program, Progress Re-	RL-386
port, Dec. 30, 1944 [Dalmo Victor]. 14-418 Geared Selsyns.	RL-388
Rudur Scunner Development Program, Programs Re- Parallel "T" Stubilizing Networks for AC S	
port, Jan. 12, 1945 [Dalmo Victor]. 14-419	RL-811
Final Report on H2K Roll Statilized Seanner Remitte of Tents Performed on Synchra Un	
[Maguire Industries Inc.], 14-429 Systems.	RL-921
Radur Scunning Unit, Final Report [Chrysler]. Description and Method of Operation of the	
	Special
14-566 Synchro Tent Bench and Synchro Tenti	Special
Rudar Nututing Antenna Spiral Seanning Unita, Bul-	Special ng Pro- RL-922
Rudar Nututing Antenna Spiral Seanning Unita, Bulance and Adjustment [Chrysler]. 14-573 Synchro Tent Bench and Synchro Tential	Special ng Pro- RL-922
Rudur Nututing Antenna Spiral Seanning Unita, Bul- ance and Adjustment [Chrysler]. 14-573 On Conical Seanning. RL-31 A Displacement or Velocity Servo Amplifier, Interpretable of the Amilynis of an Amplidyne Servo Medicina.	Special ng Pro- RL-922 RL-1015
Rudur Nututing Antenna Spiral Scanning Unita, Bulance and Adjustment [Chrysler].  On Conical Scanning.  RI-31 Correction of the Scanning of Shipborne Rudar Systems Tunes are Tubes. Velocity Medulate.	Special ng Pro- RL-922 RL-1015 RL-T-4
Rudur Nututing Antenna Spiral Seanning Unitn, Bulance and Adjustment [Chrysler]. 14-573 On Conicul Seanning. RL-31 Correction of the Seanning of Shipborne Rudar Systems for Roll and Fitch of the Ship. RL-126 Synchro Tent Bench and Synchro Tentile Bench	Special ng Pro- RL-922 RL-1015 RL-T-4
Rudar Nutating Antenna Spiral Seanning Unita, Bulance and Adjustment [Chrysler]. 14-573 On Conical Seanning. RL-31 Correction of the Seanning of Shipborne Rudar Systems for Roll and Fitch of the Ship. RL-126 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133  14-566 Synchro Tent Bench and Synchro Tentic Bench and Synchr	Special ng Pro- RL-922 RL-1015 RL-T-4
14-566 Rudur Nututing Antenna Spiral Seanning Unita, Bulance and Adjustment [Chrysler].  On Conical Seanning.  Correction of the Seanning of Shipborne Rudar Systems for Roll and Fitch of the Ship.  Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Seanning, High Revolution Antennan Prelimitum.  Supplied Tent Bench and Synchro Tent Benc	Special ng Pro- RL-922 RL-1015 RL-T-4
Rudur Nututing Antenna Spiral Seanning Unita, Bulance and Adjustment [Chrysler]. 14-573 On Conical Seanning. RL-31 Correction of the Scanning of Shipborne Rudar Systems for Roll and Fitch of the Ship. RL-126 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Seanning, High Revolution Antenna Preliminary Report. RL-265  14-566 Synchro Tent Bench and Synchro Tentile Bench and	Special ng Pro- RL-922 RL-1015 RL-T-4 d rol Sys-
Rudur Nututing Antenna Spiral Scanning Unita, Bulance and Adjustment [Chrysler]. 14-573 On Conical Scanning. RL-31 Correction of the Scanning of Shipborne Rudar Systems for Roll and Fitch of the Ship. RL-126 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Scanning, High Revolution Antenuan Preliminary Report. RL-265 Report of Conference on Rapid Scanning. RL-275 Report of Conference on Rapid Scanning. RL-275	Special ng Pro- RL-922 RL-1015 RL-T-4 d rol Sys-
Late 14-566 Rudar Nutating Antenna Spiral Seanning Unita, Bulance and Adjustment [Chrysler].  On Conical Seanning.  Correction of the Seanning of Shipborne Rudar Systems for Roll and Fitch of the Ship.  Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Seanning, High Revolution Antennan Preliminary Report.  Report of Conference on Rapid Seanning.  RL-275 Automatic Range and Azimuth Trucking While Sean-	Special mg Pro- RL-922 RL-1015 RL-T-4 d rol Sys- Radar al Fire
A Displacement or Velocity Servo Amplifier.  A Displacement of Vel	Special ng Pro- RL-922 RL-1015 RL-T-4 d rol Sys- Radar al Fire 14-892
Rudur Nututing Antenna Spiral Seanning Unita, Bulance and Adjustment [Chrysler].  On Conical Seanning.  Correction of the Scanning of Shipborne Rudar Syntems for Roll and Fitch of the Ship.  Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133  Rupid Seanning, High Revolution Antennan Preliminary Report.  Report of Conference on Rapid Senning.  RL-265  Report of Synchro Tent Bench and Synchro Tentice endures.  A Displacement or Velocity Serve Amplifier.  A Misplacement or Velocity Serve Amplifier.  A milysis of un Amplidyne Servemechanium.  SHEPHERD TUBES, see Tubes, Velocity-Modulate Shipbone Radar, and Navigation and Mapping  Components  Motor Torpudo Boat (M.T.B.) Computing  Sight for Blind, Semi-Blind and Visu  [Sperty].  Radar Seanning Unit, Final Report [Ch	Special ng Pro- RL-922 RL-1015 RL-T-4 d rol Sys- Radar al Fire 14-892 rysler],
Rudur Nututing Antenna Spiral Seanning Unitn, Bulance and Adjustment [Chrysler]. 14-573 On Conical Seanning. RL-31 Correction of the Scanning of Shipborne Rudar Syntems for Roll and Fitch of the Ship. RL-126 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Seanning, High Revolution Antennan Preliminary Report. Report of Conference on Rapid Senning. RL-265 Automatic Range and Azimuth Trucking While Seanning. RL-341 Confeal Seanning. RL-367 The Balancing of Spiral-Scan Spinners, RL-380 Rubanching Antenna Spiral Seanning Unit, Final Report [Chrysler].	Special mg Pro- RL-922 RL-1015 RL-T-4 d rol Sys- Radar al Fire 14-892 rysler], 14-506
Automatic Range and Azimuth Trucking While Seanning.  RL-31 Report of Conference on Rapid Seanning.  RL-31 Automatic Range and Azimuth Trucking While Seanning.  RL-31 Conleal Seanning.  RL-31 Rubatic Report of Spiral-Sean Spinners.  RL-36 Report of Spiral-Sean Spinners.  RL-36 Report of Spiral-Sean Spinners.  RL-36 Report of Conference on Rapid Seanning.  RL-36 Report of Seanning Unit, Final Report [Ch. Rapid	Special ng Pro- RL-922 RL-1015 RL-T-4 d rol Sys- Radar al Fine 14-392 trysler], 14-506
Later Naturing Antenna Spiral Seanning Units, Bulance and Adjustment [Chrysler]. 14-573  On Conical Seanning. RL-31 Correction of the Seanning of Shipborne Rudar Systems for Roll and Fitch of the Ship. RL-126 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Seanning, High Revolution Antennan Preliminary Report. Report of Conference on Rapid Seanning. RL-275 Antomatic Range and Azimuth Trucking While Seanning. RL-341 Conload Seanning. RL-341 Conload Seanning. RL-366 RL-375 RL-386 Report of Conference on Rapid Seanning. RL-381 Conload Seanning. RL-381 Conload Seanning. RL-380 Decelopment of a Flexible Relay Servomechanium and Application to Sector Seanning Spinner Contact.  RASD Stable Element, Final Report [GE]. Radar Nutating Antenna Spiral Seanning	Special ng Pro- RL-922 RL-1015 RL-T-4 d rol Sys- Radar al Fire 14-892 rysler], 14-506 14-567 Unitn,
Rudur Nututing Antenna Spiral Seanning Unitn, Bulance and Adjustment [Chrysler]. 14-573 On Conical Seanning. RL-31 Correction of the Seanning of Shipborne Rudar Systems for Roll and Fitch of the Ship. RL-126 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Seanning, High Revalution Antennan Frelininary Report. RL-265 Report of Conference on Rapid Seanning, RL-341 Confeal Seanning. RL-341 Confeal Seanning. RL-341 Confeal Seanning. RL-367 The Balancing of Spiral-Sean Spinners. RL-367 The Balancing of Spiral-Sean Spinners. RL-367 RL-366 RASD Stable Element, Final Report [Chrysler]. RASD Stable Element, Final Report [Chrysler].	Special ng Pro- RL-922 RL-1015 RL-T-4 d rol Sys- Radar al Fire 14-392 rysler], 14-506 14-567 Unitn,
Rudur Nututing Antenna Spiral Seanning Unitn, Bulance and Adjustment [Chrysler]. 14-573 On Conical Seanning. RL-31 Correction of the Scanning of Shipborne Rudar Syntems for Roll and Fitch of the Ship. RL-126 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Seanning, High Revolution Antennan Preliminary Report. Report of Conference on Rapid Seanning, RL-265 Automatic Range and Azimuth Trucking While Seanning. RL-341 Confeal Seanning. RL-367 The Balancing of Spiral-Scan Spinners, RL-386 Development of a Flexible Relay Servomechunium and Application to Sectar Scanning Spinner Control. RL-386 Labocatory and Field Tests with Stabilized Spinners. RL-386 Labocatory and Field Tests with Stabilized Spinners.	Special ng Pro- ng Pro- RL-922 RL-1015 RL-T-4 d rol Sys- Radar al Fire 14-392 rysler], 14-566 Unitn, 14-57 Radar
Automatic Range and Asimuth Trucking While Seanning.  Conteal Seanning.  RL-31 Report of Conference on Rapid Senning.  RL-32 Automatic Range and Asimuth Trucking While Seanning.  Conteal Seanning.  RL-34 Confeal Seanning.  RL-36 Report of Spiral-Sean Spinners.  RL-36 Report of Conference on Rapid Senning.  RL-36 Report of Conference on Rapid Senning Spinner Contents  RL-36 Report of Conference on Rapid Senning Spinner Contents  RL-36 Report of Conference on Rapid Senning Spinner Contents  RL-36 Report of Conference on Rapid Senning Spinner Contents  RL-36 Report of Conference on Rapid Senning Sight for Blind, Semi-Blind and Visu [Sperry].  Radar Seanning Unit, Final Report [Chrysler].  RASD Stable Element, Final Beport [GE].  Radar Nutating Antenna Spiral Seanning Balance and Adjuntment [Chrysler].  Correction of the Seanning.  RL-315  Ruport of Conference on Rapid Senning.  RL-366 Report of Conference also Bearons, Fire Contents, and Navigation and Mapping  Components  Motor Tent Bench and Synchro Tents  A Displacement or Velocity Serve Amplifier.  Amlynis of an Amplidage Servencehanian.  SHEPHERD TUBES, see Tubes, Velocity-Modulate Shipborne Radar, and Navigation and Mapping  Components  Motor Torpudo Boat (M.T.B.) Camputing  Sight for Blind, Semi-Blind and Visu [Sperry].  RASD Stable Element, Final Report [Correction of the Sonning of Spinner Contents.  RL-386 Report of Conference on Rapid Senning.  RL-386 Report of Conference on Rapid Senning.  RL-386 Report of Conference on Rapid Senning.  Shepher Tent Bender on Velocity Amilynia of an Amplidance ment of Visual Amilynia of an Ampliance of the Shiphor	Special ng Pro- ng Pro- RL-922 RL-1015 RL-T-4 d rol Sys- Radar al Fire 14-392 rysler], 14-566 Unitn, 14-57 Radar
Rudur Nututing Antenna Spiral Seanning Unitn, Bulance and Adjustment [Chrysler]. 14-573 On Conical Seanning. RL-31 Correction of the Seanning of Shipborne Rudar Systems for Roll and Fitch of the Ship. RL-126 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Seanning, High Revalution Antennan Preliminary Report. RL-265 Report of Conference on Rapid Sennuing, RL-275 Antennatic Range and Azimuth Trucking While Seanning. RL-341 Conleal Seanning. RL-367 The Balancing of Spiral-Sean Spinners, RL-367 The Balancing of Spiral-Sean Spinners, RL-367 Report of a Flexible Relay Servomechunium and Application to Sectar Seanning Spinner Control. RL-386 Laboratory and Field Tests with Stabilized Spinners, RL-365 Search Seans and System Performance. RL-367	Special ng Pro- ng Pro- RL-922 RL-1015 RL-T-4 d rol Sys- Radar al Fire 14-392 rysler], 14-566 Unitn, 14-57 Radar
Rudur Nututing Antenna Spiral Seanning Unitn, Bulance and Adjustment [Chrysler]. 14-573 On Conical Seanning. RL-31 Correction of the Seanning of Shipborne Rudar Systems for Roll and Fitch of the Ship. RL-126 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Seanning, High Revalution Antennan Preliminary Report. Report of Conference on Rapid Seanning. RL-275 Automatic Range and Azimuth Trucking While Seanning. RL-341 Conleal Seanning. RL-341 Conleal Seanning. RL-367 The Balancing of Spiral-Sean Spinners. RL-380 Development of a Flexible Relay Servemechanium and Application to Sectar Seanning Spinner Control. RL-385 Search Seans and System Performance. RL-395 Search Seans and System Performance. RL-487 A One-Tube, One-Selsyn Sector-Seanner. RL-488 Leaku Warsgnide Ravid Seanner. RL-487 Leaku Warsgnide Ravid Seanners. RL-557	Special ng Pro- ng Pro- RL-922 RL-1015 RL-1015 RL-T-4 d rol Sys- Radar al Fire 14-392 rysler], 14-506 14-567 Unitn, 14-573 Radar RL-126 RL-385
Synchro Tent Bench and Synchro Tentic ecduren.  A Displacement or Velocity Servo Amplifier. The Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Report of Conference on Rapid Sennoing. RL-255 Automatic Range and Azimuth Trucking While Sennoing. RL-364 Laboratory and Field Tents with Stubilized Spinners. RL-385 Leaky Waveguide Rapid Seanner. RL-365 RL-364 A One-Tube, One-Selnyn Sector-Seanner. RL-365 Ruleaful Seanner. RL-365 RL-366	Special ng Pro- ng Pro- RL-922 RL-1015 RL-1015 RL-T-4 d rol Sys- Radar al Fire 14-392 rysler], 14-506 14-567 Unitn, 14-573 Radar RL-126 RL-385
Rudur Nututing Antenna Spiral Seanning Unitn, Bulance and Adjustment [Chrysler]. 14-573 On Conical Seanning. RL-31 Correction of the Seanning of Shipborne Rudar Systems for Roll and Fitch of the Ship. RL-126 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Seanning, High Revalution Antennan Preliminary Report. Report of Conference on Rapid Seanning. RL-275 Automatic Range and Azimuth Trucking While Seanning. RL-341 Conleal Seanning. RL-367 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Seanning. High Revalution Antennan Preliminary Report. RL-265 Report of Conference on Rapid Seanning. RL-367 A One-Tube, One-Selsyn Sector-Seanner. RL-386 Synchro Tent Bench and Synchro Tentic ecduren. A Insplacement or Velocity Serve Amplifier. A Insplacement or Velocity Antuly in Amplifier. Insplacement or Velocity Serve Amplifier. Insplacement or Velocity Antuly in Amplifier. Insplacemen	Special specia
Synchro Tent Bench and Synchro Tenticance and Adjustment [Chrysler].  On Conical Scanning.  Correction of the Scanning of Shipborne Rudar Synchro of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Report of Conference on Rapid Scanning.  RL-265 Automatic Range and Azimuth Trucking While Scanning.  Conteal Scanning.  RL-367 The Balancing of Spiral-Scan Spinners.  RL-380 Labocatory and Field Tests with Stubilized Spinnern.  RL-386 Labocatory and Field Tests with Stubilized Spinnern.  RL-395 Search Scans and System Perfucance.  RL-407 A One-Tube, One-Selnyn Scetor-Scanner.  Leaky Waveguide Rapid Scanner.  RL-365 Parallel Plate Option for Electrical Scanning, RL-046	Special specia
Rudur Nututing Antenna Spiral Seanning Unitn, Bulance and Adjustment [Chrysler]. 14-573 On Conical Seanning. RL-31 Correction of the Seanning of Shipborne Rudar Systems for Roll and Fitch of the Ship. RL-126 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Seanning, High Revalution Antennan Preliminary Report. Report of Conference on Rapid Seanning. RL-275 Automatic Range and Azimuth Trucking While Seanning. RL-341 Conleal Seanning. RL-367 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Seanning. High Revalution Antennan Preliminary Report. RL-265 Report of Conference on Rapid Seanning. RL-367 A One-Tube, One-Selsyn Sector-Seanner. RL-386 Synchro Tent Bench and Synchro Tentic ecduren. A Insplacement or Velocity Serve Amplifier. A Insplacement or Velocity Antuly in Amplifier. Insplacement or Velocity Serve Amplifier. Insplacement or Velocity Antuly in Amplifier. Insplacemen	Special specia
Labocatory and Field Tests with Stabilized Spinners Correction to Seetar Scanning Spinners RL-386 RASD Stable Element, Final Report [Chrysler].  Labocatory and Field Tests with Stabilized Spinners RL-395 Range Range Rapid Scanners.  RL-395 Range Range Range Refers Refers Refers Refers Range Range Refers Refer	Special specia
Rudur Nututing Antenna Spiral Seanning Unitn, Bulance and Adjustment [Chrysler]. 14-573 On Conical Seanning. RL-31 Correction of the Seanning of Shipborne Rudar Systems for Roll and Fitch of the Ship. RL-126 Report of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Seanning, High Revalution Antennan Preliminary Report. Report of Conference on Rapid Seanning, RL-275 Automatic Range and Azimuth Trucking While Seanning. RL-341 Conleal Seanning. RL-341 Conleal Seanning. RL-367 The Balancing of Spiral-Scan Spinners, RL-360 Development of a Flexible Relay Servemechanium and Application to Sectar Seanning Spinner Controls. RL-386 Labocatory and Field Tests with Stabilized Spinnern. RL-395 Search Seans and System Perfactanence. RL-395 Search Seans and System Perfactaner. RL-396 Laby Wavegnide Rapid Seanner. RL-397 Linear Electrical Scanner. RL-398 Stable Seanners and Unsteady Airplanes. RL-398 Stable Seanners and Unsteady Airplanes. RL-399 Stable Seanners and Unsteady Airplanes. RL-399 System Test Bench and System A Inspiacement or Velocity Serve Amplifier. A Inspiacement or Velocity Analysis of un Amplicate Sulpsia of un	Special specia
Synchro Tent Bench and Synchro Tenticance and Adjustment [Chrysler].  On Conical Scanning.  Correction of the Scanning of Shipborne Rudar Synchro of Section VI, Mar. 4—Mar. 22, 1941. RL-133 Rupid Scanning, High Revolution Antennan Prelintinary Report.  Report of Conference on Rapid Scanning.  RL-341 Conteal Scanning.  RL-365 The Balancing of Spiral-Scan Spinners.  RL-367 The Balancing of Spiral-Scan Spinners.  RL-368 Labocatory and Field Tests with Stabilized Spinnern.  RL-365 Synchro Tent Bench and Synchro Testic ecduren.  A Displacement or Velocity Servo Amplifier.  A mulysis of an Amplidage Servomechanium.  Shepherd Test Bench and Synchro Testic ecduren.  A Displacement or Velocity Servo Amplifier.  A mulysis of an Amplidage Servomechanium.  Shepherd Test Bench and Synchro Testic ecduren.  A Displacement or Velocity Servo Amplifier.  A mulysis of an Amplidage Servomechanium.  Shepherd Test Bench and Synchro Testic ecduren.  A Displacement or Velocity Servo Amplifier.  A mulysis of an Amplidage Servomechanium.  Shepherd Test Bench and Synchro Testic ecduren.  A Displacement or Velocity Servo Amplifier.  A mulysis of an Amplidage Servomechanium.  Shepherd Test Bench and Synchro Testic ecduren.  A Displacement or Velocity Servo Amplifier.  Amulysis of an Amplidage Servomechanium.  Shepherd Test Bench and Synchro Testic ecduren.  A Displacement or Velocity Servo Amplifier.  Amulysis of an Amplidage Servomechanium.  Shepherd Test Bench and Synchro Testic ecduren.  A mulysis of an Amplidage Servomechanium.  Shepherd Test Bench and Synchro Testic ecduren.  A mulysis of an Amplidage Servomechanium.  Shepherd Test Bench and Synchro Test Bending.  Shepherd Test Bench and Synchro Testic ecduren.  A mulysis of an Amplidage Servomechanium.  Shepherd Test Bench and Synchro Testic ecduren.  A mulysis of an Amplidate Servomechanium.  Shepherd Test Servomechanium.  Shepherd Test Senions.  Shepherd Test Senions.  Shepherd Test Senions.  Shepherd Test Senions.  Shepherd Tests and Synchro Servomechanium.  Shepherd Tests and Spi	Special specia

	25 MARSTON I REPORTS 95
SHIPBORNE RADAR (Continued)	SHIPBORNE RADAR (Continued)
The SCI Rapid-Senn Height-Finding Autensa. RL-688	Auti-Aircraft Target Designation Equipment for
Shipborne Black Maria Antennas. RL-796	Ships. RL-646 The AEW System, Book II, Shipboard Equipment.
Mark 58 U Chronograph. RL-805	RL-806-2
Stip Ring Assembly for the MK 56X System.	A Naviyotional Radar for Naval Auxiliaries and
RL-877	Merchant Murine. RL-876
Handhooke Comprehensive Repart on USS Semmes Radur	A High Resolution Set. RL-S-5
Installation. RL-393	MTB Compating Rudar Sight, RL-S-14
Radur Beneau-Mark I Mud 1. RL-M-167	SIGHTS, see Fire Control Systems
Handbook of Maintenance Instructions for CXGQ	Signal Generators, see Test Equipment
RL-M-168	Siting and Brane of Mines Brane
Preliminary Instructions for the Manual Bearing	Siting and Range of Microwave Beacons. RL-590 Possible Rador Saluthum to the Problem of Accurate
Unit. RL-M-192	Siting of Field Artillecy. RL-S-12
CXHR Maintenance Mannul. RL-M-224 Preliminary Book of Maintenance Instructions fur	SPARK GAPS, see Modulators ond Tubes
Shipboard Components of AEW. RI-M-229	SPECTRUM ANALYZERS, see Test Equipment
Preliminary Instructions for Rudar System MK 35.	STABILIZATION, FREQUENCY, see Cavities, Magnelrons,
R1M-246 Preliminary Description of the MK 56 Gan Fire	Power Equipment and Power Supplies, Tubes, etc.
Control System, RL-M-242	STABILIZATION, MECHANICAL
Performance	Device for Determination of the Vertical by Means
Report of Operation USS Semmes, RL-38	of Cunmic Rays   Cornell  . 14-363
Reyular Report on the USS Semmes 3,000-Me	Final Report on H2K Roll Stabilized Scanner [Maguire Industries Inc.]. 14-429
Operations. RL-50	RASD Stable Element, Final Report [GE]. 14-567
Regular Report on the USS Semmen 3,000-Me Operations. RL-51	SU-2 Antenna. Shiphocne Stabilized Radar Antenna
Operations. RL-51 Regular Report on the USS Semaces 3,000-Me	for Sea Search. RL-659
Operations. RL-52	SU-2 Antenna, Line-af-Sight Stabilization of a Rador
Analysis of Firing Tests on Mark 51, Dam Neck.	Beam Reflector Tilt. RL-660
Pirginia. RL-371	Stubilized SG-3 Antenna. RL-665 Stuble Seanners and Unsteady Aicylunes. RL-701
Vertical Coverage of a 11%-Ft by 5-Ft Antenna De-	STANKING WAVE DETECTORS, acc Test Equipment and
signed for SG-3 (Experimental Data Obtained	Transmission Lines
with an SNB Aircraft as Taryet). RL-636	STATISTICAL THEORY, see Theory
Over-Water Toots of S-Band Early Warning far Ships. Vertical Coverage of the CXHR (SCI)	Supersonics, see also Crystals, Delay Lines, and
Seurch System. RL-703	Trainers Tokyo H2X Photographs, Comparison of Operational
Surface Caverage of Some Shipborne Rudar Sets on S, X, and K Bands. RL-720	PPI Photographs with PPI Predictions of the
Range Altitude Coverages of Shiphorne Microwave	Ultrasonic Rudar Trainer. RL-715
Search Radurs. RL-741	A Theory of a Supersonic Delay Line. RL-733
Keho Box Techniques fur Testing S-Bund Ship-	A Measurement of Supersonic Velocity in Mercury
borne Rudare, RL-M-146	at 15 Me/s as a Function of Temperoture. RL-74b Multiple Reflection Delay Tank. RL-791
AKW Tuetical Tests at Brigantine. RL-S-50	On the Theory and Performance of Liquid Delay
Systems and Attachments U. S. Radar Survey, Section 2—Shipborne Rodar	Lines, RL-792
[NDRC]. 14-332	Supersonic Delay Lines, RL-850
Development of Gan Fire Cautrol System Mork &6,	Supersonie Solid Delay Lines. RL-932
Final Report [GE]. 14-497	An Application of the Pulse Technique to the Meas-
Components of CXIIR (SCI) Equipment, Final	nrement of the Absorption of Supersonic Waves in Liquids. RL-963
Report IGEL. 14-507	in Liquids. RL-963 A Method of Compensating the Frequency Depen-
Third General Report on Section Activities, May	dence of Altenuation in a Supersonic Delay Line.
14—Nov. 14, 1941.  Roof System Report, Initial Development.  RL-37	RL-965
Navy Roof, etc. RL-39	Preliminary Hundbook of Instructions for HZX
Roof Systems Reports, Aug. 26-Sept. 24, 1941.	Supernonic Trainer, Mark II. RL-M-157A
R140	
SM Rudar. RL-506	Supersonic Trainer, Mark III. RL-M-157B Haadbook of Instructions for the Preparation of
A High Resolution K-Band Ship Search Set. RL-576	
MD-010	

96 PAR	T COL
Supragonics (Continued)	Test Equipment (Continued)
Preliminary Handbook of Instructions for Super-	(PIB-II) [PIB]. 14-47
sonic Trainer, AN/APQ-7-T1 (Engls Trainer). RL-M-189	Metallized-Glass Plate Program at PIB, Research Conference [PIB]. 14-47:
Handbook of Instructions for the Preparation of	Accuracy of Attenuation Measurements Made with
Mountain Mapa for the H2X Supersonic Trainer.	the Ballantine Voltmeter [PIB]. 14-480
RL-M-205	Frequency Sensitivity of Metallized-Glass Attenua
Instructions for Installation and Maintenance of	tor Inserts Tupe TMS-2 PB [PIB]. 14-48:
Waffle Reliaf Mape in Ultrasonic Trainers.	The TMX-11 PH Metallized-Glass Pinte for Vari
RL-M-206	able X Band Attenuator, Maximum 25 db [PIB]
Specifications for 15-Me Supersonie Crystal for Crys-	14-48
tal Cartridgen Types 3 and 7B. RL-S-35	The TMX-16 PR Metallized-Glass Plats for X Band
Ultrasonic Radar Trainer PPI Photographs of a	Fixed Attenuator, 25 Db [PIB]. 14-48-
Simulated H2X Bombing Mission over Tokyo.  RL-S-45	The TMX-24 PB Metallized-Glass Plate for X Bass Fixed Attenuator Pads of 19 Db and 13 D
Velocity of Propagation of 15-Me Ultrasonic Pulses	[PIB]. 14-48
in Liquida. RI-S-56	A Resistive Variable Attenuator for K Band with
SYNCHROSCOPES, see Test Equipment	40 Db Maximum Attenuation [PIR]. 14-48
factics, see Airborne Radar, Ground Radar, Ship-	Electrical Performance of Matallized-Glass At
borne Radar, and Theory, Statistical and Specific Applications	tenuators for TS-147/UP in Extended X Bane [P1B].
TARGETS, see Propagation	
PARGET IDENTIFICATION, see IFF, Moving Target Indi-	
cation, Airborne Radar, Ground Radar, and Ship-	Fixed Value Metallized-Glass Coasial Attenuators
borne Radar	[PIB]. 14-82:
TEST EQUIPMENT	Variable Metallized-Glass Conviul Attenuation [PIB], 14-32
Antruna	Metallized-Glass Bolometern [PTB]. 14-52-
An Automntic Recorder for Microwave Antenna	
Pattern Measurements, RI-266	The Development of Metallized-Glum Attenuating
Antenna Parts and Measuring Equipment. RL-472	Elementa for X Band and Wann Guide [PIB]. 14-52:
Antenna Menguring Equipment. RL-601-1	Metallized-Glass Wave Guide Attenuature [PIB].
Antenna Measuring Equipment, High Power CW	14-52)
Transmitter for S-Band, RL-601-2	The Development of Metallized-Gluan Attenuators
Antenna Meanuring Equipment, 100-dh Linear	
Andio Amplifier, RL-601-3	
Antenna Measuring Equipment, Automatic An-	R-F Components for Microwave Bridges [PIB].
tenna Patteru Recorder. RL-001-4	14-529
Field Station for Antenna Mensurements. RL-632	Microwave Attenuation Standards   PIB . 14-531
Attenuators, see alsa Test Equipment-Power Meas-	Microscava Attenuation Measurement [PIB].
uring, and Transmission Lines-Components	Paralleles Markette Agency Business Fig. 14-533
Coaxial Exponential Tapers [PIB]. 14-164 Progress Report on Coaxial Platinum Film At-	Precision Metallized-Glass Resistor Units [PIB] 14-53
tenuators [PIB]. 14-215	A Grid-Type R-F Attenuator. RL-90:
Theory of Conzint Attenuators [PIB], 14-216	Capacitive-Type R-F Attenuator, RL-998
Soldering to Glass [PIB]. 14-217	Calibrators
Metallized-Glunn Attenunture and Miscellaneons	Model II Calibrator. RL-333
R.F. Test Amessories [PIB]. 14-360	Calibrator for Low Altitude Bombing Equipment
Errors in Attenuation Measurement Caused by Re-	RL-336
flection Longes [PIB]. 14-365	Type I and A Test Unit. RL-343
Notes on the Accurate Measurement of Small At-	Operating Instructions for Sweep Calibrator
tenuations at Microwaves [PIB], 14-439	Model B. RL-M-18:
Influence of Inner Wave Guide Dimensions on	Operating Instructions for Sweep Calibrator
Broad-Band Performance of Calibrated Attenua-	Model B-8127. RL-M-22
tors [PIB]. 14-473	Crystal
Une of Suncreisen for Cementing Metallized-Gluse	Measurement of Conversion Gain with a Modulated
Resistor Plates, Preliminary Report [PIB].	Oscillator [Purdue]. 14-14.
14-474	A Device for the Selection and Manufacture of
Ethiopian committee of the contract of the con	Low Level Detectors [U. of Pa.]. 14-201
Frequency Sensitivity of Metallized-Glass Attenua-	
tor Inserts Type TMS-4PB [PIB]. 14-477	Audio Noise Tester [U. of Pa.]. 14-267
	Audio Noise Tester [U. of Pa.], 14-267 Test Equipment for Germanium Second Detector

r Equipment (Continued) Squatal (Continued)	Test Equipment (Continued)
	Impolance Measuremest
Conversion Lass Measuring Apparatus for Crystals	R-F Camponents for Microwave Bridges [PIB].
in the 2-Can Bund. R1257	14-528
A Simple Method for Determination of the Law of	The Une of the Magic Tee Microwave Bridge in
a Crystal. RL-270	Measuring Impedance. RL-643
Noise Temperature Measuring Apparotus for Crus-	Instructions for TBK-2RL Impedance Bridge,
tols as 10,000 to 30 Megacycle Cunverters,	
RL-296	RL-M-237
A Conversion Loss Set for Testing K-Bund Crystal	Instructions for K-Rand Bench Testing. RL-M-238
Rectifiers. RL-668	Miscelluncons
	Simulated High-Altitude Brush Testing Equip-
	ment [NDRC]. 14-137
	Measurement of Dielectric Countain and Loss with
1N23 Noise Measuring Set Type 7438. RL-M-190	Standing Waves in Coasial Wave Guides [MIT].
1N21 Noise Tester, Type 11044. RL-M-191	14-142
cho Boxes, see also Cavities	Auxiliary Ranipacent for the M.I.T. Coax Instru-
The Resonant Echo Box. RL-277	ment and Ita Use [MIT]. 14-210
Design of an Improved X-Rand Keho Box. RL-631	Microwane Resistance Comparator [P1B.] 14-481
K-Bond Echo Line, RL-974	Design of Equipment for Meanurement of Dielec-
Echo flox Application. RL-1040	tric Constant and Loss with Standing Waves is
Tentative Operating Isstructions for M.I.T. Radia-	Wave Guiden (XII) [MIT], 14-54
tion Laboratory Reho Box Ducy, \$456, RL-M-128	An Apparatus for Determining Heat Distortion
Reho Hox Techniques for Testing S-Hund Ship-	Churucteristics of Plastics (XIII)   MIT  ,
Borne Radara. RL-M-146	14-54
Preliminary Instruction Manual for Echo Box for	Regular Report on the Components Testing Sys
SCR-584, RI,-M-150	tem, Nov. 12, 1941. RL-4:
Instruction Manual for Echa Box Test Kit.	Regular Report on the Components Testing Sys
RL-M-165	tem, Dec. 17, 1941. RL-4
Hamilbook of Operating and Maintenance Instruc-	Measuring Instruments for 3-Cm. RL-2
tions for Echo Boxes TES-8MK and TES-9MK,	Regular Report on the Components Tenting Sys
	tem, Oct. 8, 1941. RL-4
RL-M-194	
The So-Called Standard Target. RL-S-43	Special Report on Buffered Multiple Phase Box RL-4
requency Measurement	
Frequency-Waccingth Conversion Tables. RL-642	Regular Report on the Operation of Screen Cage
TFX-29RI, Frequency Comparator. RL-681	RL-4
X-Band Beneau Reference Cavities. RL-972	Regular Report on the Advanced Development Sys
Instructions for Types TFK-2HU, TFK-3HU, and	tem, RL-4
TFK-6HU Frequency Meters. RL-M-176A	Report of the Radio Frequency Section. RL-14
Instructions for Types TFK-2HU, TFK-3HU, and	Oncilloscope Presentation of Hysteresis Loops a
TFK-6HU Frequency Meters. RL-M-176B	60 Cycles and under Palse Conditions. RL-21
TFX-34RI, Fixed Frequency Standard, RL-M-207	Test Equipment for Pulse Transformers. RL-21
TFX-35RL Fixed Frequency Standard. RL-M-208	Synchro Test Equipment and Test Procedure.
TFX-36RL Fixed Frequency Standard. RL-M-209	RL-43
Instructions for Types TFX-17GA, TFX-18GA,	Pulse Transformer Committee Standard Tes
TFX-19GA, TFX-30EC, TFX-31EC, Model 51	Methods for Pulse Transformer Cores. RL-72
and Similar Types of Micrometer Frequency	A Method of Shielding for Filter Insertion Los
Meters. RL-M-217	Measurements. RL-78
X-Band Scaled Standard Covities. RL-S-70	R-F Mechanical Modulator for S-Band. RL-79
inneral	Microwave Technique us of May, 1943. RL-T-1
U. S. Radur Survey, Section 6-Test Equipment	Modulator
[NDRC], 14-336	Service Manual for Video Amplifier [U. of Pa.]
U. S. Radar Survey, Section 6-Test Equipment,	14-9
Change 1 [NDRC]. 14-465	Test Set for Roytheon Service Modulator Instruc
Microwave Radar Field and Laboratory Test	tians for Operation and Testing. RL-7
	A Diode-Type Pulse Voltmeter. RL-52
Equipment and Components, Find Report [PIB]. 14-535	Oneilloscopes and Synchroscopes
	Western Electric D-180448 Input Equipment an
medelitab Individually for a Con-	Western Kleetrio X-61901 Oseilloscopo [BTL].
Catalog of Microwave Test Equipment. RL-S-28	14-8
Cotalog of Microwave Test Equipment. RL-S-41	Report of Activities of Synchranizer Section.
General Lecture Series on Radar Camponents.	RI7
RL-T-18	INA/* (

TEST EQUIPMENT (Continued)	
Oscilloscopes (Continued)	
Description and Operation of the Gene	ral Purpose
Variable Delay Unit.	RL-891
"Winterscope" or Funt Sweep Synche	oscone.
trend of the same to the same	RL-1001
Model P4-E Synchroscope and R-F En	
entar.	RL-M-124
Instruction Mannal for Revised Model	RL-M-126
seope.	
Types TON-1GA (Type Q) and TON-	Hit Osciuu-
ncopen,	RL-M-140
Synchrancape Hundhook (Model SYN-15	
Instructions for Operation of High	Gain Video
Amplifier for P4-E Synchrancope.	RL-M-166
Operating Instructions for the Model	
nizer.	RL-M-195A
Operating Instructions for Radiation	Laboratory
Model 5 Synchroncope.	RL-M-212
Model 5 Synchroncope.	RL-S-18
Power Measuring Equipment (bolome	ters, loads,
thermistor bridges, wattmeters, etc.)	ttinj fouces
Instructions for Use of PR Type 1R	( Halamatan
Terminal  PIB .	14-218
Notes on Une of Bolometers for Ultra	
quency Attenuation Measurements [I	
The 1B2 Bolometer Terminal [PIB].	14-220
Investigation of Effect of Manufacturis	
Equipment Vuciables un X-Rund Ch	
of Bell System Thermistors [BTL].	14-227
The Investigation of the Effect of Mo	nufacturing
and Test Equipment Voriables on	the X-Bund
Churacteristics of Bell System Thern	intora, Jan.
21, 1944 [BTL].	14-255
The Inventigation of the Effect of Mo	
und Test Equipment Variables on	
Characteristics of Itell System Thorn	
27, 1944 [BTL].	14-281
The Investigation of the Effect of Mu	
and Test Equipment Variables on	
Chandalistic A 22 II Codes To	ne ,1-ranne
Characteristics of Bell System 7	
June 19, 1945  BTL],	14-457
Inventigation of the Effect of Manufac Tent Equipment Variables on the	centing and
Tent Equipment Variables on the	A- and A-
Band Charneteristics of Itell System	
tors, Final Report [BTL].	14-462
Metallized-Gloss Bolameters [PIB].	14-524
Microwave Power Measurement with	
[PIB].	14-529
Wave Guide Termination for Measurin	g Power at
3.2-Cm.	RL-89
Special Report on the Littlefune Bulome	ter. RL-145
Microwave Wattmeter.	RL-239
Microwave Wattmeter II 3-Cm and 1-C	
3-Cm Itolometer Detretor Suitukle for	
urements (Type Y).	RL-262
General Report on Low Level Pawer M	
at 10-Cm in Coax,	RL-279
	RL-249
A 10-20 Centimeter Bulometer, Bridge Methods in Longued Medium	
Bridge Methods in Low and Medium Power Measurement,	
i ower binasurement,	RL-410
	CONFID

TEST EQUIPMENT (Continued) Fower Measuring (Continued) The Two-Disc D-C Thermistor Itridge Circuit. A Littlefuse Direct-Reading Wattmeter. RL-548 Mutching Resistance Curves by Meons of Two Linear Ganged Potentiometers and a Three-Terminal Resistance Network. RL-610 K-Band High Power Water Load. RL-723 The Measurement of Thermal Radiation at Micrawave Frequencies. RL-787 Brood Band Test Loads. RL-847 Instructions for Types TWX-5 and TWS-5EV Battery-Operated Wattmeters (Preliminary Models of TS-125/AP). RL-M-174 Instructions for Type TBN-3EV Thermistor Bridge. RL-M-186A Instructions for TBN-6SE Thermistor Bridge. RL-M-203 Hundkook of Operating and Maintenance Instructians for Dummy Load TS-253/AP. RL-M-216 An Automatic Noise-Figure Meter. RL-1017 A Trigger Generator for Signal Threshold Studies. RL-1036 Signal Generators Development of Pulsed Signal Generator [Sylvania]. 14-174 Simplified Measurement of Receiver Sensitivities (S-Band Noise Source). Revision of General Rudio Type 60%-B Signal Generator for Palaing. RL-575 Instructions for TGS-2SE, TGS-3BL and TGS-5BL Signal Generators. RL-M-141 Instructions for TGX-2HL and TGX-3HL Signal Generatura. RL-M-143A Instructions for Type TTX-6RH and Type TTX-10RH Test Sets. RI-M-169 Instructions for Types TTX-6(), TTX-9(), TTX-10(), TTX-12() and TS-263/TPS-10 Test Sets. RL-M-169B Handbook of Operating and Maintenance Instructions for Test Set TS-259 (XR-1) /AP with Supplements on Test Sets TS-259 (XR-2)/AP and TS-258 (XR-3) /AP and Signal Generator TS-259/AP. RL-M-193A Instructions for TGS-6DE Boresighting Signal Generator (Preliminary Model of Tent Set TS-318/AP). RL-M-198A TFX-34RL Fixed Frequency Standard. RL-M-207 TFX-35RL Fixed Frequency Standard. RL-M-208 TFX-36RL Fixed Frequency Standard. RL-M-209 Spectrum Analyzer Spectrum Analyzer (Type 103) for Pulsed Oneillatar at 3,000-Me. RL-M-115

Tentative Instruction Manual for M.I.T. Radiation

Tentative Operating Instruction for M.I.T. Radiation Laboratory Modified Type 102-A Test Set

RL-M-120

RL-M-123

Lakoratory Test Set (Type A).

(Type 102A-1).

	97
TEST EQUIPMENT (Continued)	TEST EQUIPMENT (Continued)
Spectrum Anolyzer (Cantimum)	Tuke (Continued)
Instruction Munual for Spectrum Analyzer (Type	Measurement of Pressure in Gas Tukes by a Rodio-
105) for X Bund Pulsed Oscillators and Spec-	Frequency Metlend, RL-432
tram Analyzer (Type 107) for S Band Pulmd	Testing of Fixed-Tuned, Low-Q, ATR Tubes.
Oscillators. RL-M-127	RL-611
Instructions for Type TSK-1SE Spectrum Ann-	A Proposed Standard Test Covity for the 707B
tyser. RL-M-142	Tule. RL-693
Instructions for TSX-2 Spectrum Analyzer.	3-Cm Magnetron Test Bench Construction and
RL-M-173	Operation. RL-M-114
Instructions for TSX-2 and Specifications on TSX-	
4SE Spectrum Analyzurs. RL-M-173B	Theory, see also theoretical papers under specific sub-
Instructions for TSX-2 and Specifications on TSX-	žentu,
4SE and TTS-4SE Spectrum Analyzers,	General Electromagnetic Theory
RL-M-178C	Tronsmission of Irises in Waveguides [Cornell].
Instructions for Type TSK-5SE Spectrum Ana-	14-111
lyzer. RL-M-231	Theoretical Results on the TR Buz [Cornell].
Standing Wave Detectors	14-116
Loss Mensurement by Two Probe Reversal Method.	Perturbation Theory for Curities [Cornell].
RL-240	Theory of the TR Box (Cornell). 14-117
Standing Wave Detector. RL-341	Theory of Thick Inductive Windows with Small
Monutement of Impedance with the Standing	Openings [Cornell], 14-171
Wave Detretor, RL-346	The Scattering of Electromagnetic Endintian by a
Mintchunter. RL-705	Narrow Rectungular Strip of Infinite Conductive
New Type Probe for Consial Standing Wase De-	ity [Purdue]. 14-404
tectors. RL-835	Electromagnetic Theory, Final Report [Cornell].
System The Development of Marking & Classical College	14-466
The Development of Metallized-Gluss Attenuators for Test Set TS-147/UP (FIR). 14-527	Special Report of the Reflection of Plane Waven by
	Magnetic Substruces. RL-146
Special Report on 30-Me Pulsed Signal Generator. RL-109	Theory of a "Black Body" Produced by a Combina-
Radio Set RHR, Section IY-RHB Test Equip-	tion of a Thin Serven and a Perfect Mircor
ment. RL-508-3	RL-148
Dividopment of Microwite Test Sets. RL-1011	Theory of a "Black Buly" Produced by a Com-
Microgane Test Signals. RL-1023	binution of a Thia Screen and a Perfect Mirror,
Design Proposal for AN/APN-19A Check Set.	Supplement to RL-148. RL-154
RL-1062	A Method to Mensure High Frequency Permeabil-
Handbook of Mointenance Instructions for Type	ity of a Ferromognetic Body. RL-155
TTX-IBL Test Set (Type B). RL-M-133	Energy Loss in Copper under Polse Conditions.
Instructions for Type TTX-6RH and Type TTX-	RL-619
10RH Test Sets. RL-M-169	An Extension of Lugrange's Equations to Electro-
Instructions for Types TTX-6(), TTX-9(), TTX-	magnetic Field Problems, Equivalent Networks,
10(), TTX-12() and TS-263/TPS-10 Test Sats.	Part I. RL-626
RL-M-169B	A Theoretical Treatment of Radar Target Return,
Handbook of Operating and Maintenance Instruc-	Part I. RL-719
tions for Test Sets TS-258 (XR-1)/AP with Sup-	Culculation of the Resonant Frequencies of a Torus
plements on Test Sets TS-259 (XR-2)/AP and	by Lugrangian and Yarintional Methods. 14-924
TS-259 (XR-3)/AP and Signal Generator TS-	Reflections from Curved Surfaces. RL-976
259/AP. RL-M-193A	Restriction of Rudiation from Curved Surfaces.
Preliminary Maintenance and Operating Instruc-	RL-1029
tions for TS-364/APX-15 Test Set. RL-M-202	A Methad for Calculating Magnetron Resonant
Handbook of Operating and Maintenance Instruc-	Frequencies and Modes. RL-1039
tions for Test Set TGI-3CA. RIM-204	An Extension of Lagrange's Equations to Elec-
Black Maria Check Set, TS-495/APX. RL-M-233	tramognetic Field Problems, Equivalent Net-
Instructions for TS-416/AP Cheek Set. RIM-234	works, Part II. RL-1046
Tube	The Determination of Fields Satisfying Laplace's,
Service Manual far Vidvo Amplifier [U. of Pa.].	Poissen's, and Associated Equations by Finz Platting. RL-1047
14-97	A Flux Plotting Methed for Obtnining Fields
Ktystron and Cll' Test Sets. RL-139	Satisfying Maxwell's Equations, with Applica-
Details of X-Band High Level TR Tuke Test	tions to the Magnetron. RL-1048
Bench. RL-417	

THEORY (Continued)		TR AND ATR SWITCHES (Continued)	D f 184
Miscellaneous		Transmit-Receive Switch.	RL-150
A Method of Summing a Slowly Converge		Various 3-Cm TR Box Characteristics.	RL-160
[PIB].	14-475	Preplanking of Test for G-Bond.	RL-23
A Method of Virtual Displacements for E		Comparison of the Frequency Sensitivities and Shunt TR Junctions.	RL-24
Systems with Applications to Pulse Tre		Measurements of 721A TR Tube Leakage	
ers.	RL-618	Acquarements of 721A 1R 1 noe Leanuge	RL-24
An Electronic Modulator for CW Magnet	RL-748	Pre-ignition Transmission through Gas-	
Course Thomas of Plantain's Room Made		Tubes and its Contribution to Crystal Fat	
General Theory of Electronic Beam Modu	RL-758	2 store that he Continuation to Cigorat 2 at	RL-25-
Foundary Internal Matheda of Applicate 1	RL-762-1	The TR Box.	RL-34
		Measurement of the Q-Value of a TR Box.	RL-349
Tables and Methods of Colculation for Line	RL-762-2	Direct Coupling in the TR Box.	RL-352
Steady-State Vibration of Two-Spring Me		Progress Reports on TR Tubes.	RL-360
System.	RL-S-49	Transmission of Higher Harmonics throug	
Tables of Fourier Transforms of Fourier		Cavity.	RL-361
	RL-S-58	Some Experiments in Determining the Power	
	RL-T-16	mission ond Recovery Time of TR Boxes.	
Statistical Theory		Maximum Allowable Negative Backwein	
Theory of Random Processes.	RL-454	Pulses.	RL-363
On the Fluctuations in Signals Returned !		Detoils of X-Band High Level TR Tube Tea	
Independently Moving Scatterers.	RL-465		RL-417
On the Appearance of the A-Scope When t	he Putne	Report on K-Band Work in U. S. A.	RL-475
Truvels Through a Homogeneous Dist	ribation	Chemical Methods for Maintaining the Part	ial Pres-
of Scutterers,	R1466	nuce of Water Vapor in TR Tubes.	RL-593
Fluctuations in the Return Signals from		The 1B27 TR Tube.	RL-594
Scatterers,	R1773	Testing of Fixed-Tuned, Low Q, ATR Tubes	. RL-611
Dispection of High-Frequency Rudio 11		1B3s Pre-TR.	RL-641
Ionized Gases,	RL-836	A Low Power X-Bond R-F Gas Switch.	RL-841
Theory of Alternating Current Discha		Recovery Time Measurements in Bund-Pas	
Санев.	RL-967	for Various Gases,	RL-895
A Theoentical Treatment of Radar Turget		Theoretical Interpretation of Recovery Time	
	RL-1049	Boxes.	RL-929
A Procedure for Statistical Analysis of		X-Band Bandpass TR Tube.	RL-970
	RL-S-21	S-Band Bandposs TR. Tubes.	RL-971
THERMISTORS, see Test Equipment		Note on a Low Power S-Band Gas Switch, Microwave Technique as of May, 1943.	RL-979 RL-T-13
THYRATRONS, see Tubes		General Lecture Series on Rador Campon	
TR AND ATR SWITCHES			RL-T-18
Theurstical Results on the TR Box   Cornell  .	14-116		
Theory of the TR Box [Cornell],	14-128	TRACKING	
Freliminary Measurements on GE X-Band T	ransmit-	Rudar Angle Tracking, Government Rador	· Patent
Receiver Gas Switch [BTL].	14-225	Program—Technical Report No. 1. [ND	RCJ.
The Fixed Tuned Broad-Band Transmitter			14-319
neet Switch-I, Some Preliminary Consul		Third General Report on Section Activities	
[BTL].	14-261	Period from May 14, 1941 to Nov. 14, 1941	
Development of 1B07 TR Tube [Sylvania].	14-315	Circular Succep Precision Range System Mo	
Government Radar Patent Program—Techn			RL-322
port No. 4—Duplexing [MIT].	14-391		utomatic
Progress Report on Broad-Band Fixed-Tu and Anti-TR Gas Switching Tubes [GE],		Range Trocking Circuit.	RL-323
Final Report on Bread-Bund TR and Auti-T.	14-401	Photoelectric Automatic Range Tracking 1.	
BTLL.		Andrilamenta Andrilama Para di Para di Angra	RL-324
Final Report on Radar Tuke Model Shop  S)	14-402 dennial	Antinireraft Artillery Board Test on the S Circular Sweep Ronge,	
an armore a new menter (Sump [3]	14-582	Automatic Range and Azimuth Tracking.	RL-326
Broad Bund TR Tube Development [GE].	14-594	Confeul Seanning,	RL-341
Receivers.	RL-101	Data on SCR-584 Control Equipment.	RL-367 RL-370
Receivers and TR Boxes,	RL-102	Aided Tracking, Sept. 17, 1943.	RL-430
Receivers, TR Bures, Measurements,	RL-103	Aided Tracking, Nov. 4, 1943.	RL-452
Report of the Radio Frequency Section.	R1,-140	Ailed Tracking, Nov. 3, 1943.	RL-452
	110	The second second second of Tenant	***********
	CONFIDE	WTIAT	

	THE TOTAL PROPERTY.	101
TRACKING (Continued)	TRAINERS AND TRAINING MATERIAL (Continue	ed)
Radar Tracking Analysis. RL-495	Knaar Trainer Equation-Sulvers for the	Relative
A Candenser Phase Shifter Range Unit with Sine	Motion of Two Muring Objects in Space.	RL-436
Mave Tracking for AN/TPG-1, AN/FPG-1, SCR-	Training Apparatus for Rudio Set SCR-58	L RL-437
598. RL-516	AN/AFS-4 (ASH) Trainer,	RI-446
Theoretical Calculation on Best Smoothing of Posi-	Fuding Simulator,	RL-556
tion Data for Gannery Prediction. RL-532	QA-2H Servo Adaptor.	RI645-1
Nº Gute Attachment for SCR-584. RL-566	Q1-2 and Q-3 Servo Amplifier.	RI-645-2
Analysis of Tracking Data, Description of Culcula-	II-d Trigger Unit.	RI-645-3
tions. RL-628	The 1-3 Signal Unit.	RL-645-4
Data Smoothing. RI-673	The J.A Modulatur Unit.	RI -645-5
Analysis of Over-Water Trucking. RL-695	The II-2 Tripper Unit.	RL-645-6
Analysis of the Tracking of the 584 X-Band System.	1-2 Signal Unit.	RL-645-7
RL-753	The R-1 and the K-2 Crystal Drivers.	RL-645-8
AN/APG-2t (Trrry). RI794	The MIIA, MIIB, and ML-3A Course M.	rchmianus.
Tests of Aided Tracking with PI. RI797		RL-645-9
Interference Britiseen SCR-584's Trucking APN-19	S-2, S-1B, S-3, S-4, S-4B Motor Control U	īnita.
Bencons. RL-816	in the second contract of the second contract	RL-645-10
Runge and Tracking Accuracy of AN/APG-15B.	The S-5 and S-5H Motor Control Units.	RL-645-11
R1,-875	The U-t and U-2 Presemplifier Units.	RL-645-12
Analysis of the Trucking Errors of the MKSSX	X-1 Errar Integrator,	RL-645-13
System. RL-884	N-1 IFF Unit.	RL-645-14
The Angular Alignment of Radur Antennas, RL-950	A Simple Trainer for GCA Approach Con	
Buresighting the AN/APG-15 Autumn Assembly,	W. W. J. C. A. H. W. A.	RI_649
RL-1009	The Trainer for Radio Set AN/MPN-1.	RI676
Computer Mark 14 AN/APA-80 XN-1 Instruction	Tokyo H2X Phutnyrupha, Comparison of C	
Massal, RL-M-179	PPI Photographs with PPI Predictio	
Preliminary Instructions on Modification Eit MC- 627 for Radio Set SCR-584, RL-M-220	Ultrasonic Rudur Trainer.	RL-715
	Link Conversion Unit for Ground-Cont.	
Preliminary Instructions on Modification Kit MC- 627 for Radio Set SCR-584 (Revised), RL-M-220B	prouch Trainer.  Two Praposed Methods of Recording the	RI716
General Lecture Series on Rudar Components.	a Moving Link Crab.	RL-736
RL-T-18	AN/APG-Tt Training Equipment.	RI759-1
M17-1-10		N/APG-T1
TRAINERS AND TRAINING MATERIAL	Training Kynipment.	RL-759-2
Coordinate Transformation Circuits Using Resolvers	The AN/APS-6 Autenno Simulotor.	RL-839
and Coordinate Transformation by Means of Klee-	A Trucking Error Recorder for the Gr	
tried Networks [Bartol]. 14-288	trolled Approuch Trainer.	RL-855
Apparatus for the Transformation of Rectingular	Granm Course Computer for AN/APQ-T	
Coordinates Using Armarcaoleers [Bartol], 14-293	Numm Donnier Simulator.	RL-857
Final Report on the Supersonic Radar Trainer	Trainer for Mark 35 Rador.	RL-967
Project [Bartol]. 14-294	Granni Clutter Unit for the Ground Con	trolled Ap-
A Portable Signal Generator for Loran Receivers	prouch Trainer.	RL-927
[RCA]. 14-297	The SP "Ferd-In" Trainer.	RL-928
Monual of Operation and Mninteannee for SM Rudar	The Mark VII Supersonic Trainer.	RL-962
Trainer [Emerson]. 14-370	A Displacement or Velocity Serro Amplific	rr. RL-1015
Final Report SM Trainer Development [Emerson].	Supersonie Composests for Use in Ruda	
14-371		RI-1050
Final Report on the Building of Busic SCR-584	A Supersonic Echo Simulating System for	
Trainer and Advanced SCR-584 Trainer   Fox-	T1.	R11055
boro]. 14-372	Special GCA Trainer Circuits.	RL-1057
Development and Construction of Equation Solvers	The OCJ-I Trainer.	RL-1058
for GCI and SCI Radar Trainers, Technical Re-	A Dummy Loy Transmitter for the C	DI 1050
port Reviewing the History [Willeax & Gibbs].	Trainer.	RL-1059 RL-1072
14-442	The Cadillac Trainer.	
Supersonie Loran Trainer, Final Report [Bartol].	Preliminary Handbook of Instructions	RL-M-157A
14-4-16	Supersonic Trainer, Mark II. Preliminary Handbook of Instructions	
Al-10 Trainer Simulation at I-F Level. RL-397	Supersonic Trainer, Mark III.	RL-M-157B
Al-10 Bench Trainer Simulation at Video Level.	- 1 1 1 1 1 CEN Wanter of the	
RL-398		RL-M-160
Lond Mass Simulator. RL-399	only).	

Preliminary Results on Calibration of Anto-Trans- formers [Cornell]. 14-364 Final Report, Transformer Model Shop [Westing- house]. 14-382 Ratary Joints with E., Stato Microwave Wottmeter II, 3-6 Cupacity (Choke) Coupling Rigid Waveguide Connecte Some Matching Properties	Measuring Power at RL-89 RL-151 RF System. RL-160 Instruments for the RL-162 RL-169 Intenna Feeds. RL-170 Feeds. RL-171 May Condides, Part 1, RL-178 Wive Guides, Part 1, RL-179 RL-180 RL-180 RL-180 RL-180 RL-180 RL-239
Maps for the H2X Supersonic Trainer. RL-M-181 Preliminary Trehnical Manual for Falcon Trainer AN/APG-13-T1. RL-M-182 Preliminary Hundhook of Instructions for Supersmic Trainer, AN/APQ-7-T1 (Eagle Trainer). RL-M-189 Hundbook of Instructions for the Preparation of Mountain Maps for the H2X Supersonic Trainer. RL-M-205 Instructions for Installation and Maintenance of Wuffle Relief Maps in Ultrasonic Trainer. RL-M-206 Handbook of Maintenance Instructions for AN/APG- 15-T1 Trainer. RL-M-207 Handbook of Maintenance Instructions for AN/APG- 15-T1 Trainer. RL-M-210 Ultrosonic Radar Trainer PPI Photographs of a Simulated H2X Bomking Mission over Tokyo. RL-S-45 TRANSFORMERS, see also Palse Transformers Preliminary Results on Calibration of Anto-Transformers [Cornell]. Preliminary Trainer Model Shop [Westing-house]. Waveguide Termination for 3.2-Cm. RF Components List No. 1, Tune-up Precedure far 3-Cn Wave Gnide Components an 1.25-Cu Region. Rear Rectangular Gnide An Illumination and Phases of A Guide of Arbitrary Cross Glines of Arbitrary Cross Final Formulas and Curve Reflections from Sections of Lines and Wave Gnide Components an 1.25-Cu Region. Rear Rectangular Gnide An Illumination and Phases of A Guide of Arbitrary Cross Glines of Arbitrary Cross Final Formulas and Curve Reflections from Sections of Lines and Wave Gnide Components an 1.25-Cu Region. Rear Rectangular Gnide An Illumination and Phases of A Guide of Arbitrary Cross Glines of Arbitrary Cross Final Formulas and Curve Reflections from Sections of Lines and Wave Gnide Components an 1.25-Cu Region. Rear Rectangular Gnide An Illumination and Phases of A Guide of Arbitrary Cross Glines of Arbitrary Cross Final Formulas and Curve Releave and Instruction of Arbitrary Cross Glines of Arbitrary Cross Final Formulas and Curve Releave of A Guide of Arbitrary Cross Glines of Arbitrary Cro	RL-89 RL-151 RF System. RL-160 Id Instruments for the RL-165 tenna Feed. RL-170 Feeds. RL-171 Intenna Inside Have Sections. RL-176 Wave Guides, Part 1, RL-179 'Inve Guides, Part 11, R. RL-180 Taperrd Transmission RL-189 RL-239
Preliminary Tsehnical Manual for Falcon Troiner AN/APG-13-T1.  Preliminary Hundhonk of Instructions for Super- smic Trainer, AN/APQ-7-T1 (Eagle Troiner). RL-M-189  Hundbook of Instructions for Reparation of Mountain Maps for the H2X Supersonic Trainer. RL-M-205 Instructions for Installation and Maintenance of Wuffle Krilief Maps in Ultrusonic Trainer. RL-M-206 Handbook of Mointemnee Instructions for AN/APG- 15-T1 Trainer. Ultrosnuic Radar Trainer PFI Photographs of a Simulated H2X Bombing Mission over Tokyo. RL-S-45  Transformers, see also Palse Transformers Preliminary Results on Calibration of Anto-Trans- formers [Cornell].  Final Kupart, Transformer Model Shop [Westing- house].  3,2-Cm, RF Components List No. 1, Tune-edd Components and 1,25-Cm Region, Rear Rectangular Guide An Illumination and Phase of 2 Roinds of Arbitrary Cross Guides of Arbitrary Cross Final Formulus and Curve Reflections from Sections of Lines and Wave Guide Components List No. 1, Tune-toners List No. 1, Tune-volume for the H2X Supersonic Trainer. RL-M-189 Rear Rectangular Guide An Illumination and Phase of 2 Round Guide An Illumination and Phase of 2 Roinds Arbitrary Cross Final Formulus and Curve Reflections from Sections of Lines and Wave Guide Components List No. 1, Tune-op Pracedure fur 3-Cu Wave Guide Components an 1,25-Cm Region, Rear Rectangular Guide An Illumination and Phase of 2 Round Guide An Illumination and List No. 1, Tune-op Pracedure fur 3-Cu Wave Guide Components List No. 1, Tune-ins 1,25-Cm Rear Rectangular Guide An Illumination and 1,25-Cm R	RL-89 RL-151 RF System. RL-160 Id Instruments for the RL-165 tenna Feed. RL-170 Feeds. RL-171 Intenna Inside Have Sections. RL-176 Wave Guides, Part 1, RL-179 'Inve Guides, Part 11, R. RL-180 Taperrd Transmission RL-189 RL-239
AN/APG-13-T1.  Preliminary Handlook of Instructions for Supersmic Trainer, AN/APQ-7-T1 (Eagle Troiner).  RL-M-180  Hundbook of Instructions for the Preparation of Mountain Maps for the H2X Supersonic Trainer.  RL-M-205  Instructions for Installation and Maintenance of Wuffle Relief Maps in Ultrasonic Trainer.  RL-M-206  Handbook of Mointenance Instructions for AN/APG-15-T1 Trainer.  RL-M-206  Handbook of Mointenance Instructions for AN/APG-15-T1 Trainer.  RL-M-211  Ultrosnaic Radar Trainer PPI Photographs of a Simulated H2X Bombing Mission over Tokyo.  RL-S-45  Transformers, see also Palse Transformers  Preliminary Results on Calibration of Anto-Transformers [Cornell].  Final Repart, Transformer Model Shop [Westing-house].  RL-M-206  Handbook of Instructions for the Preparation of Real Rectangular Guide An Illumination and Phases of A Guides of Arbitrary Cross Transformer in Rectangular Final Formulus and Carve Reflections from Sections of Lines and Wave Guides.  Microwave Wattmeter, Rotary Joints with E. Stab Singid Waveguide Components and Last No. 1, Tone-up Precedure for 3-Cn Wave Guide Components an 1.25-Cw Region, Rear Rectangular Guide An Illumination and Phases of 2 Guides of Arbitrary Cross Theory.  Junctions in Rectangular Final Formulus and Carve Reflections from Sections of Lines and Wave Guides.  Microwave Wattmeter, Rotary Joints with E. Stab Since Maleking Properties of Sone Maleking Properti	RL-151 RF System. RL-160 Il Instruments for the RL-165 tenna Feed. RL-169 intenna Feeds. RL-170 Feeds. RL-171 intennas Inside Hewe is Scetians. RL-176 Wive Guides, Part I, RL-178 I'nve Guides, Part II, s. RL-180 Tinpered Transmission RL-139 RL-239
Preliminary Hundhook of Instructions for Supersmic Trainer, AN/APQ-7-T1 (Eagle Troiner).  RL-M-180  Hundbook of Instructions for the Preparation of Mountain Maps for the H2X Supersonic Trainer. RL-M-205  Instructions for Installation and Maintenance of Wuffle Relief Maps in Ultrasonic Trainer. RL-M-206  Handbook of Mointenance Instructions for AN/APG-15-T1 Trainer. RL-M-207  Handbook of Mointenance Instructions for AN/APG-15-T1 Trainer. RL-M-208  Handbook of Mointenance Instructions for AN/APG-15-T1 Trainer. RL-M-209  Handbook of Mointenance Instructions for AN/APG-15-T1 Trainer. RL-M-205  RL-M-205  RL-M-205  Raining Resistance of A Guide Room Genide Room Instruction in Restangular Theory. Junctions in Rectangular Theory. RL-M-205  RL-M-205  Raining Resistance of A Guide Room Institute of Arbitrary Cross  T-Junctions in Rectangular Theory. Junctions in Rectangular Theory. RL-M-206  Final Formulas and Carling Resistance of A Guide Room Senite so failed of Arbitrary Cross  RL-M-205  RL-M-205  RL-M-205  Raining Resistance of A Guide Room Genide Room Institute and Curve Reflections for Sections of Lines and Wave Guide Components and 1.25-Cup Region.  Raining Components and 1.25-Cup Rejon. Raining Components and 1.25-Cup Resistance.  RL-M-205  RL-M-205  RL-M-206  RI-M-206  Raining Components and 1.25-Cup Rejon. Rear Rectangular Guide An Reining Components and 1.25-Cup Resistance.  Raining Components and 1.25-Cup Resistance.  Raining Components and 1.25-Cup Resistance.  Raining Components and 1.25-Cup Resistance.  RL-M-205  RL-M-210  Junctions in Rectangular Theory.  Reflections from Sections of Lines and Wave Guide An Remark Realamplar And Phases of A Guide And Phases of A Guide And Phases of A Guide And Phases of A Romin Guide An Remark Realamplar Roide An Remark Remark Realamplar Roide An Remark Remark Remark Remark Realamplar Roide An Remark	t RF System. RL-160 Il Instruments for the RL-162 tenna Feed. RL-163 Antenna Feeds. RL-170 Feeds. RL-171 Hennas Inside Wave Scetians. RL-176 Wave Guides, Part 1, RL-179 "ave Guides, Part 11, R. RL-180 Tuperrd Transmission RL-139 RL-239
mmic Trainer, AN/APQ-7-TI (Eagle Troiner).  RL-M-189  Hundbook of Instructions for the Preparation of Mountain Maps for the H2X Supersonic Trainer. RL-M-205  Instructions for Installation and Maintenance of Wuffle Relief Maps in Ultrasonic Trainer. RL-M-206  Handbook of Mointenance Instructions for AN/APG- 15-T1 Trainer. RL-M-207  Handbook of Mointenance Instructions for AN/APG- 15-T1 Trainer. RL-M-210  Ultrosonic Rainer PPI Photographs of a Simulated H2X Bomking Mission over Tokyo. RL-S-45  TRANSFORMERS, see also Palse Transformers  Preliminary Results on Calibration of Anto-Transformers [Cornell].  Pinal Repart, Transformer Model Shop [Westing-house].  Wave Galile Components an 1.25-Cw Region. Rectangular Guide An Radiotion and Phases of A Radiotion and Phases	I Instruments for the RL-165 RL-165 Itenna Feed. RL-170 Feeds. RL-171 Intennas Inside Have Sections. RL-176 R'Inve Guides, Part I, In. RL-180 Tuperrd Transmission RL-139 RL-239
RL-M-189 Hundbook of Instructions for the Preparation of Mountain Maps for the H2X Supersonic Trainer. RL-M-205 Instructions for Installation and Maintenance of Wuffle Relief Maps in Ultrasonic Trainer. RL-M-206 Handbook of Mointenance Instructions for AN/APG- 15-T1 Trainer. Ultrosonic Radar Trainer PII Photographs of a Simulated H2X Bombing Mission over Tokyo. RL-S-45 TRANSFORMERS, see also Palse Transformers Preliminary Results on Calibration of Anto-Transformers [Cornell]. Final Repart, Transformer Model Shop [Westing-house].  11-384	RL-165 RL-169 RL-170 Feeds. RL-171 Peeds. RL-171 Intennas Inside Have Sections. RL-176 RL-176 RL-179 Inve Guides, Part II, s. RL-180 Tuperrd Transmission RL-189 RL-239
Hundbook of Instructions for the Preparation of Mountain Maps for the H2X Supersonic Trainer.  RL-M-205 Instructions for Installation and Maintenance of Wuffle Relief Maps in Ultrasonic Trainer. RL-M-206 Handbook of Mointenance Instructions for AN/APG-15-T1 Trainer. RL-M-207 Ultrosonic Radar Trainer PPI Photographs of a Simulated H2X Bombing Mission over Tokyo. RL-S-45 Transformers, see also Palse Transformers Preliminary Results on Calibration of Anto-Transformers [Cornell]. Final Repart, Transformer Model Shop [Westing-house].  Rear Rectangular Goide An Illumination and Phases of 2 Round Guide Root Artenna Radiotion Resistance of A Guides of Arbitrary Cross T-Janetions in Rectangular Theory. Junctions in Rectangular Theory. Reflections in Rectangular Theory. Junctions in Rectangu	tenna Feed. RL-169 Intenna Feeds. RL-170 Feeds. RL-171 Feeds. RL-171 Intennas Inside Wave Sections. RL-176 Wave Guides, Part I, RL-180 Taperrd Transmission RL-189 RL-239
Mountain Maps for the H2X Supersonic Trainer. RL-M-205 Rustructions for Installation and Maintenance of Wuffle Relief Maps in Ultrasonic Trainer. RL-M-206 Handbook of Mointenance Instructions for AN/APG- 15-T1 Trainer. RL-M-221 Ultrosonic Raiber Trainer PH Photographs of a Simulated H2X Bombing Mission over Tokyo. RL-S-45 TRANSFORMERS, see also Palse Transformers Preliminary Results on Calibration of Anto-Transformers [Cornell]. Final Repart, Transformer Model Shop [Westing-house].  Hillomination and Phases of A Romal Resistance of A Radiotion Radion Radiotion Resistance of A Radiotion Rad	intenua Feeds, RL-170 Feeds, RL-171 Feeds, RL-171 Intenuas Inside Wave Sections. RL-176 Wave Guides, Part I, RL-179 Yave Guides, Part II, s. RL-180 Tuperrd Transmission RL-180 RL-239
RL-M-205 Instructions for Installation and Maintenance of Wuffle Krilief Maps in Ultrasonic Trainer. RL-M-206 Handbook of Mointenance Instructions for AN/APG- 15-T1 Trainer. Iltrosomic Radar Trainer PPI Photographs of a Simulated H2X Bombing Mission over Tokyo. RL-S-45 TRANSFORMERS, see also Palse Transformers Preliminary Results on Calibration of Anto-Transformers [Cornell]. Final Krpart, Transformer Model Shop [Westing-house]. Romal Gnible Reor Antenna Radibation Resistance of A Guiles of Arbitrary Cross T-Junctions in Rectangular Theory. Junctions in Rectangular E Final Formulas and Curve Reflections from Sections of Lines and Wave Guides. Microwave Wattmeter. Ratary Joints with E. Stab! Microwave Wottmeter II, 3-C Cupacity (Choke) Coupling Rigid Waveguide Connects Some Malchiny Properties of Some Malchiny Properties	Feeds. RL-171 Internas Inside Wave Sections. RL-176 Wave Guides, Part I, RL-179 Pave Guides, Part II, II. RL-180 Taperrd Transmission RL-139 RL-239
Instructions for Installation and Maintenance of Wuffle Krilef Maps in Ultrasonic Trainer.  RL-M-204 Handbook of Mointenance Instructions for AN/APG- 15-T1 Trainer.  RL-M-221 Ultrosonic Radar Trainer PII Photographs of a Simulated II:X Bonding Mission over Tokyo.  RL-S-45 TRANSFORMERS, see also Palse Transformers Preliminary Results on Calibration of Anto-Transformers [Cornell].  Pinal Repart, Transformer Model Shop [Westing-house].  Radiation Resistance of A Guides of Arbitrary Cross Guides of Arbitrary Cross T-Januctions in Rectangular Theory, Junctims in Rectangular Theory, Junctims in Rectangular Theory, Lines and Wave Guides, Microsave Wattmeter, Ratary Joints with E. Stab! Microsave Wottmeter II, 3-6 Cupacity (Choke) Coupling Rigid Waveguide Connecte Some Malchiny Properties of A	ntennas Inside Have Sections. RL-176 Wave Guides, Part I, RL-179 Pave Guides, Part II, s. RL-180 Tapered Transmission RL-189 RL-239
Wuffle Krlief Maps in Ultrasonic Trainer.  RL-M-206  Handbook of Mointenance Instructions for AN/APG- 15-T1 Trainer.  Ultrosonic Radar Trainer PII Photographs of a Simulated H2X Bombing Mission over Tokyo, RL-S-45  Transformers, see also Palse Transformers  Preliminary Results on Calibration of Anto-Transformers [Cornell].  Final Formulas and Carve Reflections from Sections of Lines and Wave Guides, Microwave Wattmeter, Ratary Joints with E. Stab! Microwave Wottmeter II, 3-6  Lines and Wave Guides, Microwave Wottmeter II, 3-6  Lines with E. Stab! Microwave Wottmeter II,	Sections. RL-176 Wive Guides, Part 1, RL-179 'inve Guides, Part 11, s. RL-180 Tinperra Transmission RL-189 RL-239
RL-M-206 Handbook of Mointemnee Instructions for AN/APG- 15-T1 Trniner. Ultrownic Radur Trainer PH Photographs of a Simulated H2X Bombing Mission over Tokyo. RL-S-45 TRANSFORMERS, see also Palse Transformers Preliminary Results on Calibration of Anto-Transformers [Cornell]. Final Repart, Transformer Model Shop [Westing-house].  T-Junctions in Rectangular Theory.  Lines in Rectangular Endet from Sections of Lines and Universal Water Guides.  Microwave Wattmeter. Ratary Joints with E. Stub! Microwave Wottmeter II, 3-C Cupacity (Choke) Coupling Rigid Waveguide Connects Soule Mulching Properties	Wieve Guides, Part I, RL-179 Func Guides, Part II, w. RL-180 Tupered Transmission RL-189 RL-239
Handbook of Mointenance Instructions for AN/APG- 15-T1 Trainer.  16-T1 Trainer.  16-T1 Trainer.  16-T1 Trainer.  17-T1 Trainer.  18-T1 Trainer	RI179 "uve Guidea, Part II, u. RL-180 RI189 RI239
15-T1 Trinier. RIM-221 Ultrommic Radhr Trainer PII Photographs of a Simulated II:X Bomking Mission over Tokyo. RIS-45 TRANSFORMERS, see also Palse Transformers Preliminary Results on Calibration of Anto-Transformers [Cornell]. Final Repart, Transformer Model Shop [Westing-house].  Junctimz in Rectangular E Final Formulus and Curve Reflections from Sections of Lines and Wave Guides. Microwave Wattmeter, Ratary Joints with E. Stab! Microwave Wottmeter II, 3-6 Cupacity (Choke) Coupling Rigid Waveguide Connecte Some Malchiny Properties	n. RL-180 Taperrd Transmission RL-189 RL-239
Simulated H2X Bombing Mission over Tokyo.  RL-S-45  TRANSFORMERS, see also Pulse Transformers  Preliminary Results on Calibration of Anto-Transformers [Cornell].  Final Report, Transformer Model Shop [Westing-house].  Reflections from Sections of Lines and Wave Guides.  Microwave Wattmeter.  Ratary Joints with R. Stab!  Microwave Wottmeter II, 3-C  Cupacity (Choke) Coupling  Rigid Waveguide Connects  Some Malchiny Properties	Tupered Transmission RL-189 RL-239
RL-S-45  RL-S-45  Rics und Wave Guides, Microwave Wattmeter, Ratary Joints with E. Stub's Preliminary Results on Calibration of Anto-Trans- formers [Cornell].  Final Report, Transformer Model Shop [Westing- house].  RL-S-45  Lines und Wave Guides, Microwave Wattmeter, Ratary Joints with E. Stub's Cupacity (Choke) Coupling Rigid Waveguide Connecte Some Matchiny Properties	RL-189 RL-239
TRANSFORMERS, see also Palse Transformers  Preliminary Results on Califration of Anto-Transformers [Connell].  Final Report, Transformer Model Shop [Westing-house].  Microwave Wattmeter, Ratary Joints with E. Stab Microwave Wottmeter II, 3-6 Cupacity (Choke) Coupling Rigid Waveguide Connecte Some Malchiny Properties	RL-239
Transformers   Rotary Joints with E. Stab   Preliminary Results on Califration of Anto-Trans- formers [Cornell]. 14-364 Final Repart, Transformer Model Shop [Westing- house]. 14-382   Rotary Joints with E. Stab   Microwave Wottmeter II, 3-6 Cupacity (Choke) Coupling Rigid Waveguide Connecte Some Mulching Properties of	
Preliminary Results on Calibration of Anto-Trans- formers [Cornell]. 14-364 Final Report, Transformer Model Shop [Westing- house]. 14-382 Ratary Joints with E., Stato Microwave Wottmeter II, 3-6 Cupacity (Choke) Coupling Rigid Waveguide Connecte Some Matching Properties	Fransformers, RL-243
formers [Cornell]. 14-364  Final Report, Transformer Model Shop [Westing-house]. 14-382  Cupacity (Choke) Coupling Rigid Waveguide Connecte Some Matchiny Properties	
Final Report, Transformer Model Shop [Westing- house]. Rigid Waveguide Connecte Some Matching Properties	
house], 14-382 Some Matchiny Properties	
Hermetic Scal Collared Wofer Development [Syl-	RL-261
vania]. 14-408 Information on Corrugoted Transformer Model Shop, Final Report [Raytheon]. Wave Guides.	
Transformer Model Shop, Final Report [Raytheon]. Wave Guides,  14-443 Double Dipole Rectangular I	RL-264
Transformer Madri Shap at Sharon, Pa., Finni Re-	RL-273
port   Westinghouse  . 14-454 Antenna Feeds for %" St	
Trunsformer Model Shop, Final Report [GE], 14-591 Line,	RL-271
Automa Panda from Sia" Con	
TRANSMISSION LINES General Report on Low-Leve	
Components—Design and Measurements (Attenna- of 10-Cm in Caax.	RL-279
tors, Cobles and Connectors, Chakes, Couplings, Standing Wave Detretar,	RL-344
Directional Couplers, Joints, Transitions, etc.) Klimination of the "Tromb	me" Between Trans-
An Experimental % Inch Universal Stub [PIB]. mitter and Janetian in a	Duplexing System,
14-221	RL-345
X-Brad Wave-Guide Tuning Section [PIR]. Measurement of Impedance	with the Standing
14-222 Wave Detector,	RL-346
Development of a High Impedence Radio Frs- Infinite Rejection Filters.	RL-364
quency Transmission Line [Federal]. 14-424 Microwave Linear Radiators, Government Radar Patrut Pragram—Technical Ref Attenuators	RL-366
and attractions.	RL-404
and a little to the state of th	
£754.761	RL-424
Pined Value Mutallicof Chase Consist Managers	
[DIR] 14 500 Hegh Impenance Capte,	RL-529
Parinble Metallized-Glass Coaxial Attenuators Performance of Couplings for	
[PIR]. 14_509 B accumie,	RL-538
The Development of Metallized-Glass Attenuating The Senling of Air at Rotati	
Riementa for X-Band If nve Guide [P1B], 14-525	RL-552
Mrtnllized-Glass Wave Guide Attenuators [P1R]. Vertrbrac Type Flexible Was	
14-526 The Une of the Magic Tee	
Type "N" Connector Design and Tests [P1B], Measuring Impedance,	RL-643
14-530 A Microwave Frequency Disc	
Development of Miscellanrous R-F Line Compo-	RL-675
nents [PIB]. 14-533 Design Considerations for Di	
Precision Metallized-Gluss Resistor Units [PIB].	RL-724
14-534 Experiments in Microwave 1	reakdown, RL-731

RL-162

Components (Continued)  Attenuation of RG-9/U Cuble us n Function of Temperature and Frequency in the X-Band.  RL-754	Dise
Temperature and Frequency in the X-Rand. RL-754	
RL-754	Su
101	La
An Improved K-Band Vertebrae Waveguide.	C
RI-776	-
Didectrie Phase Shifters for Waveguide. RL-788	T
Present Status of High Power at S-Band. RL-793	K
S. Band Conxial Line to Rectangular Waveguide	Ti
Transitions. RL-802	1,
A Microwave Band-Pass Filter in Waveguide,	T
RL-814	• •
An Electronic Frequency Stabilization System for	0
CW Microwave Oscillators, RL-815	
Absorption Coefficient of a Styralny Filled Consial	P
Line, R1,-827	
3-Cm Vertebrae Flexible Waveyuide. RL-831	D
Flexible Waveguides. RL-832	D
New Type Probe for Cauxial Standing Wave De-	
tvetars, RL-835	T
E. Rotary Joints for the 3 Centimeter Hand,	_
RL-853	11
Theory of Directional Couplers. RIc-860	
Rut Ruce Duplexing. RL-885	
A Theory of Remaunce in Rotury Jointa of the	
TMvt Type. RL-983	
Waveguide Motional Joints, RL-1037	
Summary of High Power Breakdown Tests an	.1.
Mierawave Components, RL-1071	Ger
Isstruction Monnal for Instalbation of Radiation	
Laboratory Type B Plogs on Cables. RL-M-149	
Instruction Manual for Installation of Radiation	J
Labaratory Type A Plugs on Caldes. RL-M-150	-
Instruction Manual far Installation of Chiksaa	A
Tool Company 1%-Inch Revalving Joint (Draw-	
ing No. 61DIC) on Radintian Laboratory Types	
B-1 and B-2 Cubles (Army-Navy Types RG-27/U	- 1
and RG-28/U), RL-M-154	
Wave Guide Handhook, Section I, Sept. 24, 1942;	
Section II, Albreviation in Wave Guides, Oct. 2,	7
1942; Section III, Obstacles to Wave Guides, Oct.	
27, 1945; Section IV, Herds and T-Junctions in	I
Wiree Guides, Dec. 4, 1942; Section V. Dichetric	
Structures in Wave Guides, Feb. 9, 1943. RI.T.9	A
Microwave Technique as of May 1943. R1,-T-13	I
Discontinuities-Irises, Obstneles, etc. (for Antenna	
Arrays, sec Antennas)	- 1
Transmission of Irises in Waveguoles [Cornell].	I
14-111	
Theory of Thick Inductive Windows with Small	7
Openings [Cornell]. 14-171	
A New Method for the Precision Measurement of	5
Wave Guide Discontinuities [CIT]. 14-317	
Precision Measurement of Wave Guide Discon-	7
tinuities [CIT]. 14-460	
A New and Practical Method for Matching Two	7
Obstacles in a Wave Guide  CIT . 14-461	A
Theory of Diffraction by Small Holes. RL-128	

Losses and Reflections Introduced by Joints and

Plaugers in 3-Cm Wave Guides.

itssion Lines (Continued) stinuities (Continued) recutance of Asymetrically Located Windows in tectangular Wave Guides. R1\_182 aped Constants for Small Irises. RL-194 opling Between Inductive Windows in Wave widen. RL-197 mry of Side Windows in Wave Guides, RL-199 citation of Cacities through Windows. RL-202 cory of Obstacles in Resonant Cavities and Wave miden. RL-205 ory of Circutar Reads in Rectangular Wave Inidea. RL-206 e-Sided Inductive Irises and Quarter-Wave apacitive Tenasformers in Waveguide. RL-426 obe-Fed Slota as Rudiating Elementa in Linear rraus. RL-455 destric Wiadams is Waveguide. **RL-587** continuities in Standing Wave Detectors and Vaveguide Junction Steps. RL-893 e Interaction of Discontinuities on a Transmisinn Line. R1-930 we Guide Handhook, Section I, Sept. 24, 1942; Section II, Abbreviation in Wave Guides, Oct. 2, 1942; Section III, Obstacles in Wave Guides, Oct. 27, 1942; Section IV, Bends and T-Junctions in Wave Guides, Dec. 4, 1942; Section V. Dielectric Structures in Wave Guides, Feb. 9, 1943. RL-T-9 crowace Technique as of May, 1943. RL-T-13 ral Considerations, (Theory Measurements, Untehing, Lines in General, Coax, Waveguides, Special Lines.) nction Effect of Two Unequal Matched Conzial lines [PIB]. New Method for the Precision Measurement of Wave Guide Discontinuities [Cal. Inst. of Tech.]. tuence of Inner Wave Guide Dimensions on Broad-Band Performance of Calibrated Attenua-14-473 tora |PIB|. ning the RF Components of a System (Lawson RL-11 Technique). pedance in Transmission Lines and Wave **RL-116** Guidea. RL-121 erowave Transmission. port on Junction Effects in Wave Guiden. RL-124 emrt of the Radio Frequency Section. R1-140 sign and Test of Cancentric Transacission Lines. RL-141 ntative Simplified Explanation of the Lawson **RL-142** Lines. ecial Report on Design Data for 50-OHM Rigid RL-147 Coaxiol Line. ata an Undercut Beads in a Concentric Line. RL-152 me-up Proceduce for 3-Cm R-F System. RL-160 atching, Losses, and Frequency Sensitivity of a RL-161 3-Cm R-F System. Polarization Rifects in a Circular Wave Guide at

CONFIDENTIAL

R1.-164

NSMISSION LINES (Continued)	TRANSMIT-RECEIVE SWITCHES, see TR and ATR Switches TRIODES, see Tubes
eneral Considerations (Continued) Propagation in Wave Guides Partly Filled with Di-	TROPICALIZATION, WEATHER-I'ROOFING, etc.
electrie, RL-174	Moisture-Proofing of Button Mica Capucitors, RL-790
Reflections from Sections of Tapered Transmis- sion Lines and Wave Guides. RL-189	X-Bund Waveguide Corrosion Proofing. RL-S-29
sion Lines and Wave Guides. RL-189 Formal Theory of Wave Guides of Arbiteary Cross	Tunes, see also Cathode Ray Tubes, Cathodes, Magne
Section. RL-198	trons, and TR and ATR Switches
Transmission Line Construction Details. RL-231	Diodes
Stub Supports in %" Coazial Lines. RL-232	S/N Mranurements on the CV-58. RL-416
Phase Distortion in Broad-Bund Stub Supports.	A Survey of High-Vacuum Diodes Used for Surge-
RL-237	Limiting Operation in Modulators. RL-580
Preplumbing of True for G-Band, RL-238	The Temperature-Limited Diodr, RL-761  High Voltage Oxide Coated Vacuum Rectifiers.
Loss Measurement by Two Probe Reversal Method. RL-240	RL-892
Dielectric Transmission Measurements. RL-244	Engineering
A Method of Measuring the S-Band Churarteristic Impedance of Coaxial Cable. RL-252	Operations of the Project Tube Shop [RCA]. 14-248
Information on Corruguted Couxial Lines and	Development of 1B27 TR Tube [Sylvania]. 14-315
Wave Guides. RL-264	Local Oscillators, see ulsa Triodes and Velocity-
A Video Delay Line, RL-302	Modulated Tubes
R-F Attenuators. RL-404 Radome Rulletin Number 7, The Measurement of	Final Report on K-Band Oscillator, Type A5022A [RCA]. 14-383
High Reflections at Low Power. RL-483-7	Special Report on 30-Me Pulsed Signal Generator.
Radome Bulletin Number 9, The Matching of High	RL-109
Standing Wave Ration. RL-483-9	A 1-Cm Oscillator. RL-I11
Radome Bulletin Number 10, The Measuryment of	Cammittee on Continueter Receiving Tubes and
Smull Reflections. RL-483-10	Resonutors. RL-286
Radome Bulletin Number 17, Current Progress on	Noise from Local Oscillators, RL-304
R-F Research, RL-483-17	An Electronic Frequency Stabilization System for CW Microwave Oscillutors. RL-815
The Theory of Corrugated Trunsmission Lines and Waveguides, RL-494	Miscellancous
Corners, Bends, und Twists in Rectungular Wave-	Fine Grid Technique. RL-299
guide. RL-585	Measurement of Pressure in Gas Tubes by a Radio
Yaveguides without Metal Walls. RL-726	Frequency Mrthod. RL-432
A Method of Shielding for Filter Insertion Loss	Clamping Tubra, RL-572
Measurements. RL-786	Receiving Tuhes
Conductivity Loss Measurements at K-Band, RL-854	Three Centimeter Receiving Tubes [BTL-WE], 14-106
Willworth Waveguide Bends. RL-S-3 X-Bond Waveguide Corrosion Proofing. RL-S-29	Committee on Crntimeter Receiving Tubes and Resonators. RL-286
Transmission Lines and Wave Guides, Similari-	The Radiation Laboratory S-Band Amplifier.
tirs and Differences. RL-T-5	RL-306
Explanation of Impedance Matching. RL-T-6	Pulse Characteristics of Common Receiver-Type
Wave Guide Hundbook, Section 1, Sept. 24, 1942;	Tubes. RL-704
Section II, Abbreviation in Wave Guides, Oct. 2,	Spark Gaps  Report on Bulgar Tube Development (West E. &
1942; Section III, Obstuctes in Wave Guiden, Oct.	Repart on Pulsur Tube Development [West, E. & M. Co.].
27, 1942; Sention IV, Bends and T-Junctions in	Report on Eurlosed Pressure Gaps [West. E. & M.
Wave Guiden, Dec. 4, 1942; Section V, Dielectrin	Co.]. 14-150
Structures in Wave Guides, Feb. 9, 1943. RL-T-9	High Power Series Gaps, Progress Report, Sept. 5.
Thrary of Impedance and Admittance Diagrams and Allied Subjects, RI-T-19	1944 [BTL-WE]. 14-316
and Allied Subjects, RL-T-10 Reflection Coefficients and Impedance Charts.	Drvelopment of Series Spark Gaps for the Period
RIT-11	January 1, 1943 to June 30, 1944 [West. E. & M. Co.].
Microwane Technique os of May, 1943. RL-T-13 Use and Derivation of A. Z. & Chorts. RL-T-14	High-Power Series Gaps, Jan. 15, 1945 [BTL-WE]. 14-398
Introduction to Alternating Currents, Q Values.	High-Power Series Gaps, Bi-Monthly Report for
	January and February 1945 [BTL-WE], 14-414
and Transmission Lines. RL-T-17	
Graval Lecture Series on Rudar Components. RL-T-18	High-Power Series Gaps, Bi-Monthly Report for March and April 1945 [BTL]. 14-438

-790 S-29

-416 erge--580 -761

-892

248 -315 -ity-

22A -383 -109 -111 -286 -304 -50r -815

108 and 286

306 upe 704

105 M. 150 . 5, 318 iod M. 827 E]. 898 for 414 for 438

Tubes (Continued)	Tunes (Cautioned)
Spack Gaps (Continued)	Thyrateons
High-Power Series Gaps, Bi-Monthly Report, July	
9, 1945 [BTL-WE]. 14-468	Pulse Thyrateons, Progress Report for June— December 1941 [GE]. 14-90
High-Power Series Gups Having Sintered Iron	
Sponge-Mercury Cuthodes [BTL-WE], 14-488	Fragress Repact on Hydrogen-Filled Thyratrons,
Houble-Triggseing and Voltage Buluncing for	Aug. 18, 1942 [GE]. 14-107
Series Gaps, (BL-R-929-2G-12)   Westinghouse  -	Repart on Developmental Work on Palse Thyratron
14-493	Type ZG-473 [GE]. 14-108
Development of Secies Spark Gaps, Final Report	Final Report on Pulse Thyrateous, Apr. 10, 1943
(RL-R-929-2C-14) [Westinghouse], 14-494	[GE.] 14-411
Dissipation in Series Gaps and Voltage-Cuerent	Development und Production of Tuke Type H50
Relationships during the Discharge, RL-682-1	Hydengen Thyratron, Final Report [Kuthe].
Division of Voltage Accous Series Spack Gaps in a	14-536
Line Type Modulutor. RL-682-2	Final Repart on Rudur Tube Model Shop [Syl-
General Characteristics of Enclosed Spack Gans	vania]. 14-582
with Emphasia on Almoinum Cathale-Type	Mensurement of Pressure in Gas Tubes by a Rudia
Series Gaps. RL-682-3	Frequency Method. RL-432
Some Characteristics of the 1B41, 1B45, and 1B49	Summary of Life-Tent Data on Sylvania 4C25
Series Spark Gaps. R1,-682-4	Hydengen Thyratrons. RL-589
Operation of Sintered Iron Spange-Mereury Cath-	Trigger Requirements of the 4C35 and 3C45
ode Type Series Gaps at SCI, AEW, and 5 Micro-	Hydragen Thyeatcons, RL-605
second Comlitions, RL-682-5	Metallie Hydeide Studies. RL-813
Three Electrode Triggered Gap. RL-880	Technical Data and Operating Notes for the 5C22
Stabilization	Hydeogen Thyratron. RL-828
Magnetron Stabilizing Tuner. RL-473	Summacy of the Life Test Program on 3C45,
Infinences of Pulse Transformer Design on 4J31-35	4C35, and 5C22 Hydragen Thyrnteons. RL-865
Mognetron Stability. RL-622	Hydrogen Thycoteons in Pulse Generator Cir-
An Electronic Frequency Stabilization System for	enits. RL-953
Cll' Microuwe Oscillators, R1,-815	Instruction Manual for Model 7A Hydrogen
A Method of Rating the Stability of Oscillature fue	Thyrateon Madulator. RL-M-145
MTI. R1819	Triodes, including Lighthouse Triodes
An Improved Frequency Stabilization System for	Decelopment of the SB-811, SB-811H and SB-846
Miceoware Oscillators, RL-837	Triodes for Pulseil and CW Operation at Micro-
Wide Range Tunuble Stabilizee. RL-964	mare Frequencies [Sylvania]. 14-590
Condined Reflector-Curity Autonostic Franciery	The Reamstron Ultra-high Feamency Oscillator,
Control for Thermally Tunni Reflex Oscillutar	September, 1940 to June 30, 1942, Progress Re-
Tuhen, R1-1034	port and Final Report [U. of Cal.]. 14-593
Theory	Committee on Centimelee Receiving Tuhen and
Spuce Churge between Pacullel Plane Grids.	Resonators, RL-286
RL-534	Report on Tests of RCA and GE "Lighthouse"
A Qualitative Analysis of Hystveesis in Reflex	Tukes, RL-290
Oscillators, RI650	Performance of the GL446 Lighthouse Take us
Notes on the Reflex Oscillutue, RL-709	an R.F. Amplifier in the 10-20 Cm Region,
Operation and Testing of Reflex Oscillators.	RL-291
R1742	Lighthouse Tube Anode Contacts. R1-292
An Electronic Mudulatur for CW Mayneteins.	Measurements on 446 "Lighthouse" Tubes. RL-413
R1-748	Lighthouse Tube Tennsmitter-Rueniver LHTR
General Theory of Electronic Beam Modulators.	Mk I. RL-429
R1,-758	Lighthouse Tube Superregenerative Heecivers. RL-484
The Temperature-Limited Diode. RL-761	
Elvetconic Tuning of Reflex Oscillators. RL-774	
· mining inj	Ricke Dingrams and Pruhe-Plate Plunger Churts of
Static Pregacacy-Madulation Characteristics of the	Lighthouse Tubes in a Re-entrunt Cavity. RL-564
Reflex Klysteon. RL-781	G.E. GL2C40 Tant-Grid Lighthouse Tukes.
Characteristics of Preproduction 2K45 Tubes.	G.E. GL2C40 Innt-Gra Lightnoune Inden. RL-600
R1-821	Operational Characteristics of 2C43 Tubes as
Some Notes on Space-Chaege-Limited Oscillators	Puland Oscillators in a Re-cutrant Carity,
and Amplifiers at Microwave Frequencies,	RL-732
RL-822	SB-846B S-Band Oscillator. RL-054
Theory of Noise from the Reflex Oscillator, RL-873	Pathochain thefrence constraints Trenda

Tubes (Continued) Velocity-Modulated Tubes, (including Klystrons and McNally Tubes). Operating Characteristics of the 707A Reflex Oseillator. Operating Charocteristics of the 707A Reflex Oscillator, Supplement to RL-233. RL-234 Operating Characteristics of the 417 Reflex Klystron. RL-235 Temperature-Compensated 707A (McNally Tube). RL-236 Operating Characteristics of the 419 Klystron. RL-251 Characteristics and Present Production of Mc-RL-303 Nally Tubes. Measurement of Electrical Tuning Ranges of 707 Tubes. RI-421 Characteristics of Recent 723A Tubes (X-Band Local Oscillators). RL-427 Characteristics of Recent 723A/B Tubes. RL-570 A Qualitative Analysis of Hysteresis in Reflex Oscillators. RL-650 A Proposed Standard Test Cavity for the 707B Tube. **KL-693** Frequency Discontinuities of Local Oscillator Tubes Due to High-Q Load Circuits. RL-694 Notes on the Reflex Oscillator. RL-709

Tunes (Cantinued)
Notes on Load Effects in Reflex Oscillators,
RL-717

Operation and Testing of Reflex Oscillators,

Low-Voltage K-Band Oscillator, RL-764 Electronic Tuning of Reflex Oscillators. RL-774 Static Frequency-Modulatian Characteristics of the Reflex Klystron. RL-781

Measurements on Noise from Reflex Oscillators. RL-872 Theory of Noise from a Reflex Oscillator. RL-873

Effect of the Tuning Plunger on Operation of 2K33 Type Tubes. RL-942 Electron Optical Studies of the 2K33 Tube.

RL-943
Operating Instructions for the Model 417 Klystron far Use as a Lacal Oscillator in Radar

Receivers. RL-M-108
Notes on the Power Output of 723A Tubes.

RL-S-7

General Lecture Scries on Radar Components. RL-T-18

WATERBORNE EQUIPMENT, see Shipborne Radar WAVEGUIDES, see Transmission Lines WEATHER-PROOFING, see Tropicalization

## PART IV

## ORGANIZATION INDEX OF DIVISION 14 REPORTS

BARTOL RESEARCH FOUNDATION, see The Franklin In-	CHRYSLER CORPORATION
stitute	Radar Seanning Unit. 14-566
BELL TELEPHONE LABORATORIES, see Western Electric Company	Radar Nutating Antenna Spiral Sconning Units, Bal- once and Adjustment, 14-573
BROWN UNIVERSITY	Colorado, University of
Abridged Report on Circuits for Improving Focus on	
Electrostatic Cathode-Ray Tubus under Conditions	Development of a Stable Noncrystal Controlled Oscil- lator. 14.98
	24-00
	COLUMBIA UNIVERSITY, RADIATION LABORATORY
Cathode-Ray Tube Detectors. 14-376	One-Cm Magnetron Research. 14-120
CALIFORNIA INSTITUTE OF TECHNOLOGY	Knnried Type Cathode—Construction umi Life Test.
A New Methad for the Precision Measurement of	14-149
Waveguble Discartinuities. 14-317	Progress Report on the Development of One- and
Precision Measurement of Waveguide Discontinuities.	Three-Cm Magnetrons. 14-223
14-460	The Elimination of Extruncous Resonance Effects in
A New and Practical Method for Matching Twa	Tunable Cm Magnetrons. 14-233
Obstacles in a Waveguide, 14-461	The Tuning Praperties of the Tunable Magnetruns
CALIFORNIA, UNIVERSITY OF	in the Three-Cun Band. 14-234
Mechanical Vacuum Switches, Tronsmission Line and	Cold Impedance of E5 Tubes, 14-235
RC Pulsing Circuits. 14-156	Columbia Radiatian Laboratory Progress Report,
The Rennatran Ultrahigh-Frequency Oscillator, June	Junuary 1944. 14-239
30, 1942. 14-593	Wnerguide Output for 1.25-Cm Magnetrons, 14-245
CARNEGIE INSTITUTE OF TECHNOLOGY	Columbia Radiation Laboratory Progress Report,
The Thenry of Durk-Trace Tubes, I. 14-131	February 1944. 14-260
The Theory of Dork-Trace Tubes, II. 14-172	Columbia Radiation Loboratory Pragress Report,
Barkening and Bleaching of KCl. 14-177	March 1944. 14-260
Twa Notes on the Potentials Developed in Cathode-	Equivalent Circuit for Resonant Modes of a Magne-
	tron, Zero Mude, 14-322
	The Resonant Modes of the 'Rising Sun' (A Tube)
Memorandu on the May 1943 Meeting an Dark-Truce Tubes at Radiation Laboratory. 14-183	Anode. 14-323
A Memorandum on the Seatlering of Light by DT	Magnetrons for Production of Centimeter Wave-
Screens. 14-198	length Radiation also Absorption of Such Rudia-
Darkening and Bleaching of KCl, II, the Effect of	tion in Wuter Vapor. 14-588
Temperoture. 14-205	Rising Sun Magnetron with Large Number of Anode
Memorandum upon the Hekavior of DT Screens Con-	Cavities for Centimeter and Millimeter Wove-
taining Magnesium. 14-214	lengths. 14-589
Experiments with Dauble-Layer DT Sercens. 14-253	CORNELL UNIVERSITY
The Theory of Dark-Trace Tubes, III. 14-257	Transmission of Irises in Waveguides. 14-111
The Depth of the Darkened Region and the Build-Up	Theoretical Results on the T-R Box. 14-116
	Perturbation Theory of Cavities. 14-117
of Darkening and Persistent Trace in KCl Screens. 14-258	Theory of the T-R Box. 14-128
	Analysis of 6SA7 Gated Amplifier. 14-158
The Tuton is the Treatment of the Contract of	Anotysis of Double-Triode Integrator. 14-159
Aging of KCl Crystals and Servens under Electron	Range-Tracking Circuit with Position Memory.
Bombardment. 14-302	14-160
The Properties of Evaporoted Layers of Potassium	Range-Tracking Circuit with Velocity Memory.
Chloride Containing Small Additions of Metallie	14-161
Elements when Subjected to Electron Bombard-	Theory of Signal-to-Noise Ralio of Crystal Mixers.
menl. 14-320	14-162
CARNEGIE INSTITUTION OF WASHINGTON	Theory of Thick Inductive Windows with Small
Investigations to Prepare a Transparent Phosphor. 14-572	Openings. 14-171

Cornell University (Continued)	DU PONT DE NEMOURS (Continued)
On the Distribution of the Average Noise Current in Reseivers. 14-305	Monthly Summery and Informal Monthly Progress Report on Protective Coatings, March 14, 1944.
Device for Determination of the Vertical by Means	14-254
of Connile Raus. 14-303	Progress Report on Sintering and Multing of Boron
Preliminary Results on Calibration of Autotrans	Powder, April 1, 1944. 14-262 Monthly Summary and Informal Manthly Progress
formers. 11-364	Report on Protective Cuatings, April 14, 1944.
Ricetronic Computers for Division, Multiplication,	14-264
Squaring, Rtc. (VAC-4). 14-430  A Mechanical Integrating System Incurporating R	Progress Report na Sintering or Melting of Boron,
Magnetic Amplifier (MA-2). 14-436	May 1, 1844. 14-272
Use of a Specially Designed Magnetic Amplifier in	Monthly and Informal Monthly Progress Report on
Computing Circuits. 14-437	Special Protective Continue, May 12, 1944. 14-273
Electromagnetic Theory. 14-466	Special Protective Continue, Progress Report, June
D-C Renalvern (DCR-2). 14-512	13, 1944. 14-280
A-C Potential Equalizers and Phase Sensitive Detec-	Progress Report on Sintering or Melting of Boron Powder, June 1, 1844. 14-283
tors (ACE-2). 14-513 Canstancy of EMF's of Bry Batteries (B1). 14-537	Special Pratnetice Coatings, Program Report, July
Electronic Computers for Division, Multiplication,	14, 1944. 14-291
Squaring, Etr., Some Additional Remarks. 14-538	Sintering or Melting of Buron Powder, July 1, 1944.
Investigation of Circuits of Use in Peccinion Radar	14-292
Computers. 14-546	Special Protective Contings, Manthly Summary and
DALMO VICTOR, INC.	Informal Progress Report, August 11, 1944.
ALA-1 Scanner Development Program Campletion	14-306
Report, Feh. 3, 1944. 14-199	Pragress Report on Sintering or Metting of Boron Founder, August 1, 1934. 14-307
AIA-1 Seanner Decelopment Program, Program Re- port, Aug. 14, 1944. 14-321	Sintering or Melting of Baren and Preparation of
Radar Scanner Development Program, Progress Re-	Hyperpure Germanium, Progress Report, Septem-
port, Sept. 30, 1944. 14-361	ker t, 1944. 14-318
Radar Seanner Development Program, Progress Re-	Statering ar Melting of Boron and Preparation of
port, September 1 to November 1, 1944. 14-418	Нурверште Gernanium, Progress Repart, October
Rudar Scanner Development Pragram, Progress Re-	1, 1844. 14-324
port, November 1, 1944 to Junuary 1, 1945. 14-419	Special Protective Contings, Mouthly Summary,
Douglas Aircraft Company	October 13, 1944. 14-325 The Preparation of Sando Films "Scheme A." 14-343
Design and Test of Project Engle Airfoil. 14-290 Du Mont Laboratomes, Allen B., 1nc.	Survey of Binder (Une A), Special Protective Cost-
The Spectral Distribution of the Luminescence of	inys, I, 14-344
Red Sercen Materials, 14-269	Special Protective Continue, II, Formulation Studies,
Final Technical Report for P31 Adaptor Develop.	Composition Variables. 14-345
ment. 14-330	Special Pratective Coatings, III, Formulation Studies,
Instruction Book for Precision PPI Aduptor, Du	Physical Processing Furiables. 14-346
Mont Type No. 255 (Indicator-Tracker Unit RC 1365).	Special Protective Continue, IV, Pigment Evaluation
Cathode-Ray Screen Tuhe Development, 14-340	Studies, 14-347 Studies, Unation V. Piles Thisburgs
DU PONT DE NEMOURS AND CUMPANY, E. I., INC.	Special Protective Contings, V, Film Thickness Evaluation, 14-348
Special Pratective Coatings, Prayress Report, Joun.	Special Pentretice Contings, VI, Crosn-Knifed Films
ary 14, 1944. 14-211	fur Prantical Work at MIT. 14-349
Sintering or Melting of Boron Powder, Progress Re-	Special Protective Contings, VII, Knife Custing on
part, November 1, 1943. 14.229	Seminorka Wheels, 14-350
Sintered Boron Project, Progress Report, December 1, 1943.	Special Pratective Contings, VIII, Lurge Scale Cont-
Sintered Boron Project, Progress Repart, January 1,	ing Triols Investigation of Fubric Coating Equip- ment, 14-351
1944. 14 190	Special Pratestive Coatings, IX, Spray Trials at
Sinturing and Melting of Boron Powder, Pragress	Toleda, 14-352
Report, February 1, 1944. 14 946	Special Protective Coatings, X, Development of
Special Protective Coatings, Progress Report, Febru-	Cement- and Paint-Making Procedure for Schrine
ary 14, 1944. 14-241 Special Protection Continue Marks 14-241	A. 14-353
Special Protective Coatings, Monthly Report, Sep. tember 13, 1944.	Special Protective Contings, XI, Development of Mn-
Progress Report on the Sintering and Melting of	chine-Spraying Process for Scheme A. 14-354
Boron, March 1, 1944. 14-252	Special Protective Contings, XII, Characterization of Metal Flakes. 14-355
	Entropy Co.
CONFID	ENTIAL.

DU PONT DE NEMOURS (Continued) Special Protective Coatings, XIII, Preparation of Film Calendering. 14-356 Special Protective Contings, Methods of Analysis far Aluminum Film and Its Ingredients. 14-357 Special Protective Contings, Monthly Summary, November 14, 1944. 14-358 Sintering or Melting of Baron and Preparation of Hyperpure Germanium, Peagress Report, Novembe 1, 1944. 14-362 Special Protective Cautings, Monthly Sammary, December 13, 1944. 14-378 Final Report-Part I, Sintering and Melting of Boron; Part II, Preparation of Hyperpare Germanium, October 31, 1944. 14-386 Monthly Sammary, Special Protective Contings, January 12, 1944. 14-389 Special Protective Continues, Physical Perfurmance Tests on Preferred Swoden System under Simulated Service Cambitians. 14 - 395Special Protective Contings, Monthly Summary, February 14, 1945. 14-403 Special Protective Coatings, Monthly Summary, March 14, 1945. 14-424 Special Protective Contings, Monthly Summary. May 12, 1945. 14-426 Special Protective Cuatinys, Munthly Summery, June 14, 1945. 14-448 Special Protective Continues, Monthly Sammary, April 13, 1945. 14.454 Special Protective Contings, Monthly Summury, July 12, 1945. 14.46.1 Special Protective Coatings, XV, Semiworks-Scale Preparation of Machine-Sprayed Film, November 11, 1944, to January 20, 1945. 14-467 Special Protective Coatings, XIV, Formulation Studies, Exploratory Work for New Uses. 14-469 Special Protective Contings, XVII, Laboratory Study of Adhesive Systems. 14-470 Special Protective Coatings, Monthly Summary and Informal Monthly Progress Report, August 13, 1915. 14-491 Special Protective Contings, Monthly Summary and Informal Monthly Frogress Report, September 14, 1945. 14 - 502Special Protective Cuatings, XXV, Final Report, 14-508 September 20, 1245, Special Protective Coatings, XVI, Surface Adjustment of "Une H" Film. 14-547 Special Protective Cautings, XVIII, Semiwarks-Scale Preparation of Machine-Sprayed Films. Special Protective Cuatings, XIX, Practical Application Trials (I'me A). 14-549 Special Protective Cautings, XX, Proctical Application Trials, Laboratory Study of Adhesives (Uses H and C). Special Protective Contings, XXI, Formulation De-14-551 relopment Studies. Special Protective Contings, XXII, Preparation of Films by Hot Pressing.

DU PONT DE NEMOURS (Continued) Special Protective Coatings, XXIII, Semiworks-Scale Preparation of Machine-Sprayed Films. Special Protective Coatings, XXIV, Process Development Work at Newburgh. 14-554 EMERSON RADIO AND PHONOGRAPH CORPORATION Development of a Power Supply and Temperature Stubilized Oscillatar far the Battery Operated Lodar Receiver. 14-203 Manual of Operation and Maintenance for SM Radar Trainer. Final Repart SM Trainer Hevelopment. 14-371 FAIRCHILD CAMERA AND INSTRUMENT CORPORATION Reports of Tests on Resouant Range Pollow-Up System. 14 - 246The Fairchild Control Station Compater (Part 1); The Fairehild .50 Caliber M2 Computer and AGS Adaptations for an Kinecson Tail Turret; Part II, Pinal Report. Advocated Design for Radar Photography. 14-503 FEDERAL TELEPHONE AND RADIO CORPORATION Decelapment of a High-Impedance Rudio-Frequency Truesaciasion Line. 14-424 THE FOXHORO COMPANY Final Report on the Building of Banic SCR-584 Trainer and Advanced SCR-584 Teniner, THE FRANKLIN INSTITUTE (Bartol Research Foundation) Crystal Clock Project, Third Progress Report, May 1. 1943. Magnetran Cathode Studies, Progress Report, May 1, 1943. Magnetron Cathade Studies, Progress Report, July 1, 1943. Crystal Clock Project and to-Ke Oscillator, Progress Report, August 1, 1943. Scaling and Relative Efficiency of Different Sized Magnetrons. Magnetran Cathode Studies, Progress Report, Sep-14-187 teacher 1, 1943. Crystal Clock Project and 10-Ke L-C Oscillator, Progress Report, October 1, 1943. 14-193 Magnetrum Cathode Studies, Progress Repart, November 1, 1944. 14-209 Crystal Clock Project and 10-Ke L-C Oscillator, Final Report, January 1, 1944. Maynetron Cathade Studies, Progress Report, Januury 1, 1944. 14-251 General Dynamical Cansidecations Applied to Piezo-Ricetvic Oscillations of a Quartz Crystal in an 14-271 Ricetrical Circuit. Sapplement to General Dynamical Considerations Applied to Piezo-Electric Oscillations of a Quartz 14-2718 Crystal in an Electrical Circuit. Courdinate Transfermation Circuits Using Resolvers and Caurdinate Transformation by Meaus of Elec-14-288 trical Networks. Apparatus for the Transformation of Rectangular Coardinates Using Arma-Resolvers. Final Report on the Sapersonis Radar Trainer Project, July 20, 1844. 14-294

THE FRANKLIN INSTITUTE (Continued)	GENERAL ELECTRIC CUMPANY (Continued)
Cathode Sparking, Rffeet of Super-Impound D.C. and	Progress Report on Broad-Band Fixed-Tuned TR and
Role of Coating Resistance. 14-295	Anti-TR Gas Switching Tubes, December 22, 1944.
Sparking of Oxide-Control Cothodes, 14-296	14-401
Buck-Bowbardment of Magnetran Cathodes. 14-309	K-Band Germaniam Crystals, Bimouthly Progress
Secondary Electron Emission from Oxide-Coated	Report, February 15, 1944. 14-406
Magnetron Cothodes. 14-310	Precision Aircraft Sconners. 14-410
Supersonic Lorun Trainer. 14-446	Final Report on Pulss Thyrntrons, April 10, 1943.
Cuthode Coating Resistance as Measured by Em-	14-411
bedded Probes. 14-514	APG-1 Trucking and Firing Tests (Data Folder No.
Secondary Electron Emission from Oxide-Control	72649), January 15, 1945. Div. 14-244.1-M2
Cotholes, 14-515	K-Band Germanium Crystols, Final Report, March
Sparking Phenomena in High Vacuum Thermionic	26, 1945. 14-427
Tubes, 14-516	A 3,000-Me Receiver Using Velocity Modulation
Sintered Thoria Cathoden, 14-517	Tubes Type ZP-439. 14-432
Effect of Particle Size. 14-518	Development of Gunfire Control System, Mark 56.
Parification of Barium and Strontium Carbonates.	14-497
14-519	Components of CXHR (SCI) Equipment, 14-507
A Note on Nitrocellulone Bimlers. 14-520	RASD Stuble Element, 14-567
Magnetron Cathode Studies, Final Report, October	2CH1A1 (AGL-1) Aircraft Fire Control Computer.
31, 1945. 14-545	14-570
General Dynamical Considerations Applied to Piezo-	Transformer Model Shop, Final Report, April 23,
Electric Oscillations of Quartz Crystal in Electrical	1945. 14-591
Circuit, Supplement II. 14-557	Brand-Bond TR Tube Development, November 7,
GALVIN MANUFACTURING CORPORATION	1945. 14-594
Development Work on AN/PPN-2 Radio Set. 14-434	GEORGIA SCHOOL OF TECHNOLOGY
Development and Production Samples of APG Series (AN/APG-5 and AN/APG-8) Radar Equipment	Development and Une of the Microband Lock-In
[including] Manuscript Hondhook of Maintenance	Amplifier. 14-592
Instructions for Rudio Sets AN/APG-5 and AN/	GILFILLAN BROTHERS, INC.
APG-5A and Tests Conducted at Northwestern	Radin Set AN/MPN-1 (XK-1), Ground Controlled
University under Galvin Monufacturing Corpora-	Approveh (GCA) Radar, Technical Report. 14-449
tion [subcontract]. 14-569	INTERNATIONAL BUSINESS MACHINES CORPORATION
GENERAL ELECTRIC COMPANY	Special Mechanical Counter for the Mark III or
Pulse Thyratrons, Progress Report for Jone, 1941, to	Phase-Shift Loran Indicator, 14-368
December, 1941. 14-90	INTERNATIONAL PROJECTOR CORPORATION
Two-Megawatt Transmitters for NDRC Project	Design of Kyy Benter Sconning Antenna for the
No. 3. 14-92	Eagle Rudar Bombnight and Construction of a
Report of Work on Duplex-Screen Token during 1941.	Model, Final Report. 14-312
14-96	KANBAS STATE COLLEGE
Work on Slow Phosphora for Radar Indicator	Instantanrovs Voltage Mrasurement by Use of a
Screens. 14-104	Trigger Circuit, Final Technical Report. 14-409
Progress Report on Hydrogen-Filled Thyratrons.	KUTHE LABORATORIES, INC.
14-107	Development and Production of Tube Type H50
Report on Developmental Work on Pulse Thyratron,	Hydrogen Thyratron, 14-536
Type ZG-473. 14-108	LELAND ELECTRIC COMPANY
Report of Progress of Work on Dark-Trace Tubes,	Development of Three-Phuse Aircraft Alternator,
14-147	14-287
Airborne Loran Equipment, 14-191 Two Motor-Driven Gun Turrets. 14-230	LIBRASCOPE, INC.
Two Motor-Driven Gun Turrets, 14-230 Development and Construction of a Local Turret	Final Report for Contract OEMsr-1044-Part 1,
Gyro Lead-Computing Sight for AGS Rodar,	History of the Contract and Patent Disclosures;
14-268	Part 2, Triungle Solver for Eagle Project (Delta);
The AGL Receiver. 14-275	Port 3, Triungle Solvers for II2X Bombing Project
K-Band Germanium Crystols, Bimonthly Progress	(Alpha); Part 4, Triungle Solver for Laboratory Une (Gamma); Part 5, Redesign of Triangle
Report, October 5, 1944. 14-328	Solver for Engle Project (Beta); Part 6, Prelimi-
K-Band Germanium Crystals, Bimonthly Progress	nary Bullistics Computer for a Gon Director Sys-
Report, December 15, 1844. 14-381	tem (Eta); Port 7, Ballistic Computer Mark 42,
Final Technical Report on AGL-1 [Fire Control]	Mod 0 (RHO); Part 8, Bullistic Computer Mark
Development. 14-385	42, Mod 1, Ser. No. 1; October 31, 1945. 14-587
1	CANDLA F

- DANGERON INDEX (	F DIVISION II REPORTS 111
Machett Laboratories, Inc.  Final Report of Development Work Dane on High-Power S-Band Magnetean (HP-10V) and Series Gaps.  Magure Industries, Inc.  Final Report on H&K Roll-Stabilized Scanaer. 14-429  Massachusetts Institute of Technalary  Progress Report on Ultrahigh-Frequency Dielectries, Report I, Laboratory for Insulation Research, Jaumry 1943.  The Interaction Between Electromagnetic Fielda and Dielectric Moterials, Report II, Laboratory for Insulation Research.  Measurement of Dielectric Constant and Loss with Standing Waves la Coaxial Wave Guides, Report III, Laboratory for Insulation Research.  14-123  Maxiliary Equipment for the MIT Coax Instrument and Its Use, Report IV, Laboratory for Insulation Research.  14-210  Tables of Dielectric Materials (Valume I), Report V, Laboratory for Insulation Research.  14-210  Tables of Dielectric Materials (Valume I), Report VI, Laboratory for Insulation Research.  14-276  Final Report, Inclading the Design of Stroking Motar for a Hydraulic Servomechanism, Servomechanisms Laboratory.  14-279  High Hielectric Constant Ceramies, Report VII, Lobaratory for Insulation Research.  14-300  Tables of Dielectric Materialn (Volume II), Report VIII, Laboratory for Insulation Research.  14-300  Tables of Dielectric Materialn (Volume II), Report VIII, Laboratory for Insulation Research.  14-490  Low Thermal Expansion Plusties, Report X, Loboratory for Insulation Research.  14-540  Design of Equipment for Measurement of Hielectric Constant and Loss with Standing Waves in Wave- gwides, Report XII, Laboratory for Insulation Research.  14-540  Design of Equipment for Measurement of Hielectric Constant and Loss with Standing Waves in Wave- gwides, Report XII, Laboratory for Insulation Research.  14-541  Dereliminary Oscillograph Studies of RF Baild-up in Magnetons, Report XIV, Laboratory for Insulation Research.  14-543  Development and Wide-Frequency Investigation of Dielectries, Report XV, Laboratory for Insulation Research.  14-544	NATIONAL DEFENSE RESEARCH COMMITTER (Cantinued) Use of Micrawave far Detection Purposes, August 15, 1942. 14-95 Use of Microwave for Detection Purposes, Bimonthly Report, March 15, 1842. 14-100 Use of Microwave far Detection Purposes, Bimonthly Report, June 1, 1942. 14-101 Use of Microwave far Detection Purposes, Bimonthly Report, June 1, 1942. 14-101 Use of Microwave for Detection Purposes, Bimonthly Report, June 1, 1942. 14-109 Indicatar Types as of October, 1942. 14-119 Indicatar Types as of October, 1942. 14-118 Summary of Projects, Bimonthly Report, January 1, 1943. 14-118 Summary of Projects, Bimonthly Report, March 1, 1945. 14-124 Computers far Radar Central of Plane-to-Plane Genfire. Indicates for Radar Central of Plane-to-Plane Genfire. Indicates for Radar Central of Plane-to-Plane Genfire. Indicates for Power-Sapply Requirements as a Function of Power-Supply Requirements. Indicates for Canton Radar Equipment. 14-134 Pawer Supply for Airborne Radar Equipment. 14-136 Simulated High-Altitudes, November 1942. 14-136 Simulated High-Altitude Brush-Testing Equipment. 14-137 Clearance for Carkon Brush Investigation. 14-138 Analysis of Commutation of Direct-Current Machines at High Altitudes, April 1948. 14-139 Summary of Projects, Bimonthly Report, May 1, 1944. 14-137 Bimonthly Praject Status Report and Summary of Projects, July 1, 1943. 14-110 Bimonthly Project Status Report and Summary of Project List, Bivision 14, as of September 15, 1943. 14-188 Index of Radar Systems, October 1, 1943. 14-188 Index of Radar Systems, Pebruary 15, 1944. 14-242 Isdex of Radar Systems, February 15, 1944. 14-242 Isdex of Radar Systems, February 15, 1944. 14-242 Isdex of Radar Systems, February 15, 1944. 14-242 Index of Division 14, NDRC Reparts, Other than Radiation Labaratory Reports, May 1, 1945. 14-250 Division 14 Contract List. 14-270 Project Repart, Division 14, June 1, 1944. 14-241 Project Repa
tion Research.  Development and Wide-Frequency Investigation of Dielectries, Report XV, Laboratary for Insulation Research.  14-544	Project Repart, Hivision 14, July 1, 1844 (Sapplement to show report). 14-278 Project Repart, Division 14, August 1, 1944. 14-301 Radar Angle Tracking, Government Radar Patent
Rotational Line Width in the Absurption Spectrum of Atmospheric Water Vapor, October 10, 1944 and Supplement (dated February 1, 1945). 14-320 NATIONAL DEFENSE RESEARCH COMMITTEE (Division 14) Technical Report of Radiation Laboratory, June 1,	U. S. Radar Survey, Section 1, Airharne Radar. 14-331 U. S. Radar Survey, Section 2, Shipharse Rodar 14-332 U. S. Radar Survey, Section 3, Ground Radar. 14-333
1941. 14-93 Use of Microwave for Detection Purposes, December 15, 1941, 14-94	U. S. Radar Survey, Section 4, Navigational Radar. 14-334

112	PAR	T IV
NATIONAL DEFENSE RESEARCH COMMITTEE (C	Continued)	PENNSYLVANIA, UNIVERSITY OF (Continued)
U. S. Radar Survey, Section 6, Test Equi		Ionization of Donntor Levels in Crystal Rectifiers by
C. D. Mann Directly, Decision of Loss is 40.	14-336	Thermal Agitution, 14-17
Project Report, Division 14, October 1, 194		Budianctive Detection of Aluminum in Silicon. 14-18
Government Rudar Patent Program, Tee		Effect of Tupping on Barrier Capacity. 14-18
port No. 2-Precise Range Mensure		Rehavior of Silicon Crystals at Law-Level Powers.
Trucking.	14-339	14-18:
Project Report, Division 14, December 1, 18		Behavior of Westinghouse Silicon as a Low-Leve
Government Rudur Patent Program, Tree		Detector. 14-18
port No. 3, Magnetrons,	14-384	Noise in Silicon Rectifiers at Low Temperatures.
Project Report, Division 14, Supplement, a		14-18
	14-388	Dependence of IF Impedance and Noise-Temperature
1945. Covernment Rudar Putent Pragram, Tech		of Crystul Rectifiers on Matching Conditions.
		14-19-
port No. 4, Duplexing.	14-391	Comparison of Wedge and Cone Contacts on For
U. S. Rudar Survey, Section 7, Numerclut		
D	14-393	Silicon. 14-19
Praject Report, February 1, 1945.	14-400	A Duvice for the Selection and Munnfucture of Low
Coversment Radur Putest Program, Teel		Level Detectors. 14-201
port No. 6, Fundamental Radar Systems		Analysis of Silicon for Nonvolatile Matter, 14-204
Project Report, Division 14, April 1, 1945,	14-420	Recent Research on Silicon Rectifiers. 14-224
Government Radar Patent Program, Twee		Noise Spectrum of Siliran Rectifiers. 14-256
port Nn. 5, R-F Campanents.	14-430	Audio Noise Tester. 14-267
Project Report, Division 14, June 1, 1945.	14-440	X-Band Video Crystals, 14-27
U. S. Rudar Survey, Section 3, Groun	nt Radar,	Production and Kffeeta of a Depletion Luyer in
Change 1.	14-451	Daped Silicon. 14-289
U. S. Radur Survey, Section 4, Navigation	ol Radur,	Kffeet of Heat Trentment on Low-Level Performance
Change 1.	14-455	14-30
Froject Report, Division 14, Supplement 1945.	July 1, 14-463	Temperature Variation of Low-Level Crystal Fer- formance, 14-308
U. S. Radar Survey, Section 6, Test E		Note on the Measurement of Noise-Temperature,
Change 1.	14-465	14-311
Project Report, Division 14, August :, 1945		Evaporated Films of Germanium and Silicon, 14-337
Project Report, Division 14, Ducumker 194		Effect of Small Crystallites un Conducticity. 14-37;
U. S. Ruder Survey, Section 8, Airborn		Crystal Andio Noise. 14-387
Change 1.	14-568	Handy Guide to Crystal Types, February 15, 1945.
U. S. Rudar Survey, Section 7, Nomenclati		14-405
Change 1.	14-574	Photoeffects in Pure Silicon. 14-412
Index of Division 14, NDRC Reports O		
Radiation Laboratory Reports, First Sa		High-Rack Vultage Silicon. 14-453
March 1, 1946.	14-583	X-Band Crystal Video Ferformance with Bias. 14-456
PENNSYLVANIA, UNIVERSITY OF	48.83	Handy Guide to Crystal Types, September 25, 1945.
Service Manual for Viden Amplifier.	14-97	14-499
The Principles of Crystal Rectifiers.	14-102	Development Research on X-Band Video Crystula.
The Electrical Conductivity of Silicon	and Ger-	14-501
manium.	14-110	Double Valued Churucteristics of Crystal Rectifiers,
Compounds of Silicon and Germanium.	14-112	Comments, 14-504
D.C Burnont Temperature in Sitieou Ree	tifiers. 14-113	Temperature Reflects of S-Rand Video Crystals. 14-505
Further D-C Burn-Out Reperiments on S		Mass Spectrometer Investigation of the Silicon Tetra-
Germanium Rectifiers,	14-119	chloride Used in Making Pure Silicon. 14-558
Riestron Microscopy of Tungsten Points.	14-125	Tests un Germas Crystals. 14-559
Noine in Crystul Rectifiers.	14-126	Barnout Life Tests of X-Band Video Crystals, 14-560
Spectrascopic Determination of Aluminum		
	14-127	Use of Different Filters is Crystal Rectifiers. 14-561 Research and Development of Crystal Rectifiers.
Barrier Capacity in Silicon Cartridge Rec		Final Report. 14-562
271 L 27	14-140	Geometrical Structure of Silican Surfaces. 14-563
High-Frequency Rectification Efficiency of		Barnont of S-Bund Video Crystals. 14-564
	14-153	Development of (1) High-Frequency Video Amplifier
Effect of Etch on Crystal Rectifiers,	14-165	and (2) Rudar Runging System, Final Report.
Capacity in Crystal Rectifiers.		

PART IV

182 vei 186

189 Hre

	11
HILCO CURPORATION	POLYTECHNIC INSTITUTE OF BROOKLYN (Continued)
Final Report of Research and Development Con-	Variable Metallized-Glass Coasial Attenuators.
dacted on Lighthouse Take Transmitter-Receiver	14-52
(LHTR) Units. 14-190	Metallized-Glass Bulometers. 14-52
DLYTECHNIC INSTITUTE OF BROOKLYN	The Development of Metallized-Glass Attenuating
Janetian Effect of Two Unequal Matched Courial	
Lines. 14-123	
Coazial Exponential Tapers. 14-164	The Development of Metallized-Glass Atlenuators for
Progress Report on Coaxial Platinum Film Attenua-	
fort. 14-215	Die G
Theory of Conxial Attenuators, 14-216	Hierowave Power Measurement with Rolometers,
Soldering to Glass. 14-217	
Instractions for Une of Plk Type IRS Bolometer	Tupe "N" Connector Design and Tests, 14-52
Terminal. 14-218	
Notes on Use of Rolameters for Ultrohigh-Frequency	4.07
Attenuation Measurements. 14-219	Microsuce Attenuation Measurement, 14-53
and the contract of the contra	Development of Miscellaneous RF Line Components
	14-53
An Experimental %-Inch Universal Stub. 14-221	Precision Metallized-Glass Resistor Units. 14-53
X-Band Wave-Guide Tuning Section. 14-222	Microwave Radar Field and Laboratory Test Equip
Metallized-Glass Attenuators and Miscellancous RF	ment and Components. 14-53
Test Accessories. 14-360	PURIOR UNIVERSITY
Errors in Attenuation Measurement Cassed by Ke-	Inventigation of Crystal Rectifier DC Characteristic
flection Losses. 14-365	14-11
Notes on the Accurate Measurement of Small At-	The Diffusion Theory of Crystal Rectifiers. 14-12
tenuations at Microwaves. 14-439	Theory of Noise in Conductors, Semiconductors, an
Tests on Additional Modified Type "N" Connectors.	Crystal Rectifiers. 14-13
14-472	Determination of Logarithmic Constants of Cryste
Inflaence of Inner Waveguide Dimensions on Broad-	Rectifiers with the Oscilloscope. 14-14
Band Performance of Calibrated Attenuators.	Measurement of Conversion Gain with a Modulate
14-473	Oscillator. 14-14
Use of Sancreisen for Computing Metallized-Glass	Crustal Noise as a Function of DC Bias and 30 M
Resistor Plates, Preliminary Report. 11-474	Impedance Measured with a Diode Noise Source
A Method of Summing a Slowly Convergent Series.	14-16
14-475	
	Theory of Contact Rectifiers. 14-16
X-Rand Slotted Section Test Equipment, Memo- randum. 14-476	The Theory of Crystal Mixers in Terms of Measur
	able Mirer Constants, 14-28
Frequency Sensitivity of Metallized-Glass Attenuator	High-Frequency Characteristics of Rectifiers. 14-28
Innerta Type TMS-4PB. 14-477	Quantitative Spectroscopic Analysis of Impurities
Madifications Pertaining to Specifications for Glass	Germonium and Silicon. 14-28
Parts of PIR Type V-3 Variable Attenuator.	Theory of Small Deviations from Pure Diade B
14-478	harior. 14-28
Metallized-Glass Plate Program at PIB Research	Preparation of High-Voltage Germanian Crystals.
Conference. 14-479	14-34
Accaracy of Attenuation Measurements Mode with	The High-Vultage Germanium Rectifier, Section
the Ballastine Voltmeter. 14-480	Experimental, 14-3
Hierowave Resistance Comparator. 14-481	The High-Voltage Germanium Rectifier, Section I
Frequency Sensitivity of Metallized-Glass Attenua-	Theoretical. 14-3
toc Isserts Type TMS-3PB. 14-482	Test Equipment for Germanium Second Detect
The TMX-14PR Metallized-Glass Plate for Variable	
X-Rand Attenuatur, Maximum 25 db. 14-483	Units. 14-5: The Seattering of Electramoynetic Radiation by
The TMX-16PB Metallized-Glass Plate for X-Basd	The Seattering of Execution of Infinite Conductionit
Fixed Attenuator, 25 db. 14-484	Nacrow Rectangular Strip of Infinite Conductivit 14-4
The TMX-24PR Metallized-Glass Plate for X-Rand	
Fixed Attenuator Pade of 10 db and 13 db. 14-485	Properties of Germanium Righ-Back Voltage Reel
A Resistive Variable Attenuator for K-Band with	fier Units. 14-4:
40 db Maximum Attenuation. 14-486	Dependence of Performance of Germaniam Secon
47 un studimum Attenuation.	Detector Units on Hins and Video Land. 14-41
Electrical Boots and at Matelliand Class Atlanta	Transmission by a Slit in a Partition in a Rectange
Electrical Performance of Metallized-Glass Attenua-	Transaction as a rate to a faction
tors for TS-147/UP in Extended X-Band. 14-487	lar Waveauide. 14-57
Electrical Performance of Metallized-Glass Attenua- tors for TS-147/UP in Extended X-Band. 14-487 Precision Metallization of Glass. 14-521 Fixed Value Metallized Glass Coaxial Attenuators.	lar Waveguide. 14-5? Further Developments in the Preparation and Ret Treatment of Germanium Alloys. 14-5?

PURDUE UNIVERSITY (Continued)	RADIO CORPORATION OF AMERICA (Continued)
Production and Performance of Germanium High	Frequency Stabilization of Oscillators by a Method
Back Valtage High Back Resistance Crystal Recti-	Particularly Adapted to the Higher Frequencies
fiers. 14-577	and Magnetron Sources. 14-397
Dependence of Noise Temperature DC and IF Crys-	Final Report on Ultraportable Racon (BUPX).
tal Conductance on Matching Conditions. 14-578	14-497
Temperature Dependence of High Voltage Ger-	Final Report on Tubes for Lightweight X-Band
maninm Rectifier DC Characteristics. 14-579	Radar and Ultraportable X-Band Beacon. 14-415
Photoelectric Effects in Germanium. 14-580	K-Band Magnetron, Technical Report. 14-444
Dependence of Forward Conductance and Back Re-	An Impraved Type of LF Loran Transmitter, 14-45-
sistance of High-Back Voltage Germanium on	An Exciter for LF Loran Transmitter. 14-459
Voltage and Frequency. 14-581	Development of a Power-Ontput Tube for NDRC
Crystal Capacity as a Function of Bias and Its Rela-	Microwave Section Project Na. 3. 14-471
tion to the Theory of Crystal Rectification. 14-584	Development of the Skiatron Cathode-Ray Tube for
Final Report on Crystal Developments for Radar	Projection Indicator. 14-492
Receivera. 14-585	Research and Development Leading to New and
RADIO CORPORATION OF AMERICA, National Broadcast-	Impraved Radar Indicators, Text and Figures.
ing Company	14-498
Report of Radio Relaying of Radar Signals. 14-243	Operations of the Project Tube Shop. 14.500
RADIO CORPORATION OF AMERICA, RCA Victor Division	Method of Measurement and Some Performance
Aircraft Position-Indicating Equipment (Receiving).	Characteristics of P14 Screens, with a Note on
14-89	Mannfacturer's Specifications for Tubes Containing
Summary of Research on Radar Indicator Sereens,	P14 Servena. 14-586
Apr. 14, 1942. 14-103	Shoran, a New Type of Radar System for High-Pre-
Noise Reduction by Delayed Feed-Back. 14-146	cision Position-Finding in Aerial Navigation, AN/
Propagation of Signals on 45.1, 474, and 2,800 Me	APN-3, AN CPN-2, Serial No. 58, W-535-sc-671.
from Empire State Building to Hauppouge and	RAYTHEON MANUFACTURING COMPANY
Riverhead, L. I. 14-179	Final Report for Transformer Model Shop, March
Descriptive Technical Specification-Fighter Tail-	12, 1945. 14-443
Warning Equipment, AN/APS-13(XAI), 14-185	RENSSELAER POLYTECHNIC INSTITUTE
Lightweight X-Band Radar, Progress Report No. 1.	Operating Characteristics of Multivibrators and Gates,
14-195	Pragress Report No. 1, January 6, 1943. 14-154
Lodar Pulse-Direction-Finding Receiver. 14-200	Operating Characteristics of Multivibrators and Gates,
Characteristics of Simplified Loran Receiving Equip-	
ment. 14-206	Progress Report Na. 2, June 1, 1943. 14-155 Performance and Stability of Triggered Gates.
Development of Airborne Loran Receiver-Indicator	14-445
Model LRN-1. 14-207	RESEARCH CONSTRUCTION COMPANY, INC.
Development of Loran Receiver Trainer. 14-208	
Simplified Loran Receiving Equipment, 14-228	Radar Model Shop, Final Report, December \$1, 1945.
Development of a Tuil-Warning Radur System,	SPERRY GYROSCOPE COMPANY
TWL-2 (AN/APS-13). 14-236 Operations of the Project Tube Shop [Harrison,	The Sperey Stabilized Aircraft Ganlaying System
	(AGL-2), Intermediate Phase. 14-289
	SPERRY PRODUCTS, INC.
Dark-Truce Radar Indicator Sereens, Progress Re-	Motor Tarpedo Boat Camputing Radar Sight for
port No. 2, February 18, 1944. 14-249	Blind, Semiblind and Visual Fire. 14-392
A Portable Signal Generator for Loran Receivers.	SYLVANIA ELECTRIC PRODUCTS, INC.
14-297	Development of a Tanable IF Amplifier. 14-99
Propagation of Signals on 45.1, 474, and 2,800 Me	Development of Pulsed Signal Generator. 14-174
from Empire State Building to Hauppauge and	Development of 1B27 TR Tube, 14-315
Riverhead, L. I. 14-298	Preparation of Exponential Decay Pawders and
A Converter for 170-Ke Loran Signals, 14-329	Servens ZnF::Mn, ZnMgF::Mn and MgSiO::Mn.
Mica Windows for Waveguide Output Magnetrans.	14-379
14-366	Hermetie Scal Collared Wafer Development. 14-408
	Aircraft Radar Equipment, Handbook of Mainte-
Waveguide Ontput Magnetrons Employing Fraed	The state of the s
Waveguide Ontput Magnetrons Employing Fraced Quartz Output Transformers. 14-367	nauce Instructions for Army-Navy Model RT-
Waveguide Ontput Magnetrons Employing Fraed Quartz Output Transformers. 14-367 Skintron Projection Cathode Ray Tubes with Dark-	nauce Instructions for Army-Navy Model RT- 63/APS British Model 110DB/206, 14-495
Waveguide Ontput Magnetrons Employing Frased Quartz Output Transformers. 14-367 Skintron Projection Cathode Ray Tubes with Dark- Trace P16 Screens. 14-369	nauce Instructions for Army-Navy Model RT- 63/APS British Model 110DB/206, 14-495 Development and Production of 30 K Band RF Heads,
Waveguide Ontput Magnetrons Employing Frased Quartz Output Transformers. 14-367 Skintron Projection Cathode-Ray Tubes with Dark- Truce P10 Servens. 14-369 Final Report on K-Baud Oscillator, Type A5022A.	nauce Instructions for Army-Navy Model RT- 63/APS British Model 110DB/206. Development and Production of 50 K Band RF Heads, Army-Navy Model RT-63/APS, British Model
Waveguide Ontput Magnetrons Employing Fraed Quartz Output Transformers. 14-367 Skintron Projection Cathode Ray Tubes with Dark- Trace P16 Servens. 14-369 Final Report on K-Band Oscillator, Type A5022.4.	nauce Instructions far Army-Navy Model RT- 63/APS British Model 110DB/206. 14-495 Development and Production of 30 K Band RF Heads, Army-Navy Model RT-63/APS, British Model 110DB/206. 14-496
Waveguide Ontput Magnetrons Employing Frased Quartz Output Transformers. 14-367 Skintron Projection Cathode-Ray Tubes with Dark- Truce P10 Servens. 14-369 Final Report on K-Baud Oscillator, Type A5022A.	nauce Instructions for Army-Navy Model RT- 63/APS British Model 110DB/206. 14-495 Development and Production of 30 K Band RF Heads, Army-Navy Model RT-63/APS, British Model

thod noies 1-397

. I-407 Band I-415 I-444 I-458 I-459 DRC I-471 I for I-492 and

-198 -500 unce

on ning -586

Pre-AN/ L

443

ten, 154 ten, -155

945. 556

tem 289

for 392

4.99 .174 .315 nnd n, .379 .408 nte. .495 udn, odel .496 582

	115
SYLVANIA ELECTRIC PROPECTS, INC. (Continued)	WESTERN ELECTRIC COMPANY (Continued)
nonelamment of SB-811, SB-811B and SB-846 Trioden	Final Report on Provident Translation
for Pulsed and CW Operation at Microwave Fee-	Final Report on Broad-Band TR and Anti-TR Tubes, September 30, 1944.
energy. 14-590	High Payon Sanis C. 11-402
TEVENS INSTITUTE OF TECHNOLOGY	High-Power Series Gups, Himonthly Report for June
Development of Electrical Brunken through Powdered	nry and February, 1945, March 13, 1945. 14-414
Metallurgy, Trehnical Keport of Remucch Work	Final Report on the Decelopment of Magnetron Gen
Conducted at Melul Powder Laboratory, Navember	ernlorn of High-Power and of Short Wavelengths
13, 1943. 14-313	January 10, 1942. 14-431
TAR RADIO PRODUCTS	High-Power Series Gups, Bissouthly Report, Macel
Pulse Transformers. 14-447	and April 1945, May 7, 1945. 14-439
ASHINGTON, THE STATE COLLEGE OF	Germanium Cegatal Reclifice for Rudor Receivern and
Propagation of 10-Cm Watter on a 52-Mile Optical	Indientoc Circuita, Interim Report No. 3, Murch
Path over Land. The Correlation of Signal Pat-	13, 1945, 14-44:
terns with Rudiomunde Dutu. 14-151	Magnetroun and Detector, Bent-Oscillator Receivers
Radiotrlephone Communication on 3,000 Me. 14-152	Record of Material Furnished, 14-450
The Captive Rudionande und Wired Sande Trehniquen	The Investigation of the Effect of Manufacturing and
for Detailed Low-Level Meteorological Somuling.	Test Equipment Variables on the X-Bund Char
14-192	netwristics of Bell System Thermistors, June 18
Propagation of 10-Cm Waves Over on Inland Lake	1945. 14-45
Correlated with Meteorological Sounding. 14-212	Investigation of the Effect of Monafacturing an
The Propagation of 10-Cm Waven over Land Paths	Test Equipment Variables on the X- and K-Ban
of 14, 52, and 112 Miles. 14-202	Characteristics of the Hell System Thermistors
VESTERN ELECTRIC COMPANY, Bell Telephone Labora-	July 30, 1945. 14-46
tories	High-Power Series Gaps, Bimouthly Report, July 1
Western Electric D-180448 Input Equipment and	1945. 14-46
Western Electric X-61901 Oscillosenpe, 14-87	High-Power Series Gaps Having Sintered Iro
Instruction Book for Western Electric D-181131 Re-	Sponge Mecency Cathodes, October 1, 1945. 14-48
eciver and Wentern Electric D-161132 Indicator for	Hent Teratment of Germanium Rectifier Muterial
a Long-Range Navigation System, 14-91	Interim Report No. 4, August 3, 1945. 14-50
Three-Centimeter Receiving Tuhen, 14-106	Preparation of High Ruck-Voltage Germanium Rect
Interfecence of Luran Pulses with Rudin Telephone	fiera, 14-55
and Telegraph Reception. 14-163	WESTINGHOUSE ELECTRIC AND MANUFACTURING CO.
Preliminary Measurements on GE X-Rand Transmit-	Long-Range Nucigation Equipment, Microwave Con
Receiver Gon Switch. 14-225	mittre Project No. 3. 14-8
Inventigation of Effect of Munufacturing and Test	Report on Pulser Tube Divelopment, May 15, 194
Equipment Variables on X-Band Characteristics of	14-10
Hall System Thermistors, November 26, 1943.	Report on Enclosed Pressure Gups, December 3.
14-227	1942. 14-15
The Investigation of the Effect of Manufacturing and	Trehnical Report on E-Band Magnetron, May 2
Test Equipment Variables on the X-Band Char-	1944 uml Supplement, Angust 21, 1944. 14-25
octeristics of Bell System Therminters, Junuary	Development of Serien Spork Gaps for the Perio
21, 1944. 14-255	Junuary 1, 1943 to June 30, 1944, August 14, 194
The Fixed Tuned Broad-Band Transmitter Discou-	14-85
nect Switch, Some Proliminary Considerations,	Final Report, Transformer Model Shop, Decemb
March 28, 1944. 14-261	20, 1944. 14-30
The Inventigation of the Effect of Manufacturing and	Transformer Model Shap at Sharon, Po., June 2
Test Equipment Variables on the X-Band Char-	1945.
ucteristics of Bell System Thermintors, May 27, 1944. 14-281	Double-Triggering and Voltage Balancing for Seri
	Gapa. 14-4
High-I'meer Series Guns, Progress Report, September 5, 1944. 14-316	Development of Series Spark Gaps, Final Report
	July 12, 1945.
High-Power Secies Gups, Biogenthly Report, November 7, 1911	3 Hig 20, 40400
7 1 1 Act 44 4	WILLOX & GIBBS SEWING MACRINE COMPANY
Development of High Buck-Voltage Germanium Rectifiers, Interim Report No. 1, November 21,	Development and Construction of Equation Solve
1944, 14-874	for GCI and SCI Rudur Trainers, Technic Brown
High-Power Secies Gaps, Jamory 15, 1945. 14-398	Report.
	Ventura Randa Carrukation
	Preliminary Instructions for Experimental His
	14-3
10, 1844.	105871.35
Greenhium Crystal Rectifier for Rudar Receivers und Indientus Cicenits, Interim Report No. 2, December 16, 1944.	Preliminary Instructions for Experimental III

## PART V

## AUTHOR INDEX OF RADIATION LABORATORY REPORTS

Abbenhouse, R. 1'. Performance Characteristics of Army-Navy Preferred Type Electrostatic Cuthule- Ray Tabes, July 6, 1944. RL-588 Description and Operation of the General Purpose Voriable Delay Unit, Mar. 26, 1946. RL-891	Ashbrook, F. M., we Smith, S. A. RI1032  vt al. Some General Microwave Anti-Jam Design  Considerations and Performance of a Special Re- eciver, Feb. 21, 1944.  Ashby, R. M., see Rollefson, R. RI363
Operating Instructions for Sweep Calibrator, Model B, Dec. 7, 1944. et al. Operating Instructions for the Model G Synchronizer, Mar. 15, 1945. Operating Instructions for Radiation Laboratory	et. al. Carner-Reflector Modulotion of Airplane Signals, Mar. 28, 1946. RL-913 et ul. Mailslution of Rudar Signals from Air- plunes, Mar. 28, 1946. RL-914 et al. Pulse Length Selector and Multiple Fulse
Model 5 Synchroscope, July 26, 1945. R1M-212 Operating Instructions for Sweep Culibrator Model B-2127, June 20, 1945. RL-M-223 Abbisti, O. Wave Form Analysis, May 29, 1944.	Decoder, Mar. 21, 1946.  Austin, J. M., et al. Qualitative Survey of Meteorologi- cul Factors Affecting Microwave Propagation, June 1, 1944.  RI-488
RL-561  Ahern, C. R., et al. A Valtage Compensatud Dalay Multivibrator, Mar. 15, 1943.  Batturfly Moving Vehicle Detector AN/APS-26, Feb. 15, 1946.  RL-1021	Austin, P., et al. Taldes of Fourier Transforms of Fourier Series, Power Series, and Polynomials, Aug. 30, 1945. RL-S-58 Babish, R. C., see Bagley, D. RL-S-66 Bacher, R. F., see Nottingham, W. B. RL-309
Alexander, R. M., see Ramsey, N. F., et al. RL-24 s-Cm System Group Report, July 5, 1941. RL-25 Flight Tests of Black I Relay Rudar System, Apr. 24, 1945. RL-727	Signal-to-Noise Measurements on Receivers, Sept. 29, 1941. RL-108 Bagley, D. Regular Report an the Components Teoling System, Dec. 17, 1941. RL-43
Bescon Tests with AN/APS-6, June 2, 1944. RL-S-16 Flight Tests on AN/APS-6A, Nov. 30, 1944 RL-S-25	<ul> <li>Bagley, D. G., et al. Type Test of the Fairchild Radar Recording Camera, Oct. 30, 1945.</li> <li>Bailey, E. M. The Angular Aliyament of Rudar Ax- tennas, Mar. 29, 1946.</li> </ul>
Alley, R. E. Jr., see Keary, T. J. RL-266 Allis, W. P. Theory of the Magnetron Oscillutor, Oct. 1, 1941. RL-122 Theory of Space-Charge in an Oscillating Magne- tron, July 1, 1942. RL-176	Bailey, F., see Kuper, J. B. H. RL-290 Bailey, F. S. Chorocteristics of the Present Production of McNully Tukes, June 3, 1943. RL-303 et al. Characteristics of Recent 723A Tukes (X- Band Local Oscillators), Sept. 4, 1943. RL-427
tron, July 1, 1942. RL-176 Allred, C. M., et al. Off-Frequency C-W Jamminy, Mar. 22, 1946. RL-910 Alvarez, L. W. Report of the System Group, Jan. 30, 1941. RL-28	et ul. Churacteristics of Recent 723A/B Tubes, May 18, 1944. RL-570 ut ul. Characteristics of Preproduction 2K45 Tubes, Oct. 29, 1945. RL-821
Microwove Lineor Radiuturs, July 31, 1942. RL-366 Ames, L. A., et al. Instructions for Modifying the SCR-584 Modulator for Use in Aspen Transmitters,	Bailey, H. H. Statistics of Beacon Interrogation, Feb. 5, 1945. RL-602 Final Report on BUPX, Apc. 8, 1946. RL-1054 Bainlaringe, K. T. Isterim Report of the Problems and Activities of Group G, Jan. 12, 1942. RL-30
Jan. 25, 1944. RL-M-155A Andrew, M. M., et al. Rodur Comonflagr, July 16, 1945. RL-746 Arenberg, D. L. Supersonic Solid Delay Lines, Apr. 30, 1946. RL-932	Cansiderations Affecting Choice of Wovelength, Sept. 24, 1941. RL-120 Bales, P. D. Test Set far Roythvon Service Modulotics, Nov. 5, 1941. RL-76
Arnold, R. D. A Method of Compensating the Frequency Dependence of Attenuation in a Supersonio Delay Line, Dec. 27, 1945. RL-945. Aton, W. Wuweguide Motional Joints, Jan. 18, 1946. RL-1037	See Gaffney, F. J. RL-75 et ul. Freliminary Report on the Fluctuations of Rular Signula, May 16, 1944. RL-569 Balmer, R. F., are Larson, R. W. RL-378 See Ramsey, N. F. RL-381

Balsbaugh, J. C., et al. Mointure-Proofing of Ratton	Bennett, S. D., (Continued)
Mica Commitors, July 31, 1945. RL-700	Supplementary Report on Aircraft Target Ronge
Baltzer, O. J., et al. Overwater Observations at X and	of AEH', Apr. 26, 1946. RL-S-6
S Frequencies on Surface Turgets, July 26, 1943.	Bent, A. E. Rudar Echoes from Atmospheric Pho
RL-401	nomena, Mar. 13, 1943 RL-17
et al. Polarization Studies at S and X Frequencies,	Climate in Relation to Microwave Rudar Propa
Mar. 14, 1944. RL-536	gation in Panama, Feb. 25, 1944. RL-47
et ul. Observations on Signal Stability at S and X	Radar Echoes from Precipitation Layers, Aug. 20
Frequencies, Mar. 14, 1944. RL-537	1945. RL-68
See Andrew, M. M. RL-766	Echoes from Tropical Rain on X-Band Airborn
Banks, F., see Hagler, D. L. RL-M-210	Radar, June 15, 1945, RL-72
Baños, A., Jr. Theacy of Ringing Time of Tanable Keko	See Beuder, R. S. RL-72
Boxes, Nov. 3, 1944. RL-639	et al. Effects of Clouds and Rain on K-Band Air
Design of an Improved X-Band Echo Box, Dec. 7,	borne Radar, Aug. 1, 1945. RL-78
그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	Berg, A., see Kelner, R. RL-33
1944. RL-631	
et al. An Electronic Modulator for CW Magne-	Rerger, R., see Pound, R. V. RL-23
trons, June 26, 1945. RL-748	Beringer, E. R. Low-Level Crystal Detectors, Mar. 16
Barker, C. B., et al. Streamlined Microwave Omni-	1948. RL-29
Directional Autonuus, Jan. 8, 1946. RL-871	Ceystal Detectors and the Crystal-Video Receiver
et al. Reflections from Careed Surfaces, Feb. 1,	Nov. 16, 1944. RL-63
1946, RI976	The Absorption of One-half Centimeter Electro
Barry, F. N. Three-Tone PPI, Mar. 20, 1946. RL-934	magnetic Waves in Oxygen, Jan. 26, 1945 RL-68
Bartelink, E. H. B., et al. Bombing Errors, Feb. 16,	
	See Dicke, R. H. RL-100
1944. RL-530	Berman, E. Low-Level Crystal Detectors, Effect of
Overland Falcon, Feb. 7, 1945. RL-047	Heat and Cald, Nov. 19, 1943. RL-44
AN/APG-18B, Vulture. Div. 14-323.2-M12	Berman, M. AN/APS-31 Autenna, Feb. 26, 1946.
Letters Discussing ASP-25 and Related Ideas Con-	RL-106
cerning Ash. Div. 14-323.2-M14	Best, R. L., et al. Improved R-F System for the Teaus
Baur, H. W. Relay Data Including Shock and Vibra-	mitter-Receiver Unit of the APQ-13, Apr. 15, 1946
tion Measurements, Aug. 1, 1945. RL-747	RL-90
Beers, D. S., et al. Electronic Tuning of Reflex Oscil-	Bethe, H. A. Theory of Diffraction by Small Holes
Inters. Aug. 1, 1945. RL-774	Jan. 23, 1942. RL-129
Sec Bailey, II. II. RL-821	Theory of High Frequency Rectification by Silicon
Beers, Y. A 46-Me Schering Bridge, May 12, 1943.	Crystals, Oct. 29, 1942. RL-184
RL-301	Theory of the Roundary Layer of Crystal Recti
Noise from Local Oscillators, June 8, 1943. RL-304	fiers, Nov. 23, 1942. RL-183
Sec Breazeale, W. M. BL-294	
et al. The Effect on Noise Figure of Placing the	Lumped Constants for Small Irises, Mar. 24, 1943
	RL-19-
Gain Control on the First I-F Stuge, Mar. 9, 1944.	Farmal Theory of Wave Guides of Arbitrary Cross
RL-528	Section, Mar. 16, 1943. RL-198
A 40-Me Paratlel Schering Bridge, Apr. 22, 1944.	Theory of Side Windows in Wave Guides, Apr. 4
RL-558	1943. RL-19
Receiver Noise Figures and Their Measurement,	Excitntion of Cavities through Hindows, Apr. 9
July 2, 1945. RL-740	1943. RL-202
Bekkar, H. B. Preliminary Technical Manual for SCR-	Bettler, P. C. Model & Modulator Performance Tests
584 MTI Modification Kit Na. MC-642-AS and Fan	Apr. 22, 1944. RL-549
Beam Search Antenna, June 1, 1945 RL-M-218	Modulatur for AN/TPS-10 Radar, Jan. 31, 1946
Belt, P. R., Jr., sec Ashkrook, F. M. RL-S-8	
Bender, R. S., et al. An Aerial Investigation of K-Band	RL-997
Rador Performance under Tropical Atmospherio Con-	Instruction Manual for Model 6-It (MKW) Model
	lator, Nov. 29, 1943. RL-M-139
ditions, Oct. 1, 1945, RL-729	Instruction Manual for Model 6 Modulator, Feb
Benfield, A. R., et al. On the Theory and Performance	18, 1944. RL-M-156
of Liquid Delay Lines, Aug. 31, 1945. RL-792	Birchard, B. L. S-Band End-Fire Array Antenna, July
Bennett, S. D. A Report on ASD-1 B-Scope Photogra-	11, 1944. RL-577
phy, Sept. 24, 1943. RL-439	Preliminary Maintenance and Operating Instruc-
et al. Video Stretching as a Method for Improving	tions for AN/APX-15, Mar. 1, 1945. RL-M-200
X-Band Begeve Reception, Aug. 31, 1944. RL-601	Preliminary Maintenance und Operating Instruc-
Preliminary Report on Single Aircraft Target	tions for the TS-364/APX-15 Test Set, Apr. 4, 1945
Ranges of AEM, Jan. 27, 1945. RL-S-37	RL-M-20:
PPI Photographs from AEW, July 5, 1945.	Blackburn, J. F., et al. Tests of Aided Tracking with
RL-S-51	P#I, Sept. 25, 1945. RL-707
112-13-01	- and to find many Tarton KPa(f)

Blackmer, L. L. P4I (Photographic Projection PPI). Apr. 26, 1945. RL-725 MEW No. 1 Preliminary Instruction Book, Mar. 14, 1944. MEW No. 2 Preliminary Instruction Bank, Mar. I4, 1944. RL-M-156B MEW No. 3 Preliminary Instruction Rack, Mar. 9, 1944. RL-M-156C Instruction Handhook for Radar Set AN/CPS-1A (Pre-production Sets), May 15, 1944. RL-M-156D Blaisdell, D., see Bailey, F. RI-427 Bleaney, B. Report on K-Band Work in U.S.A., Oct. 20, 1943. RL-475 Blue, R. W., et al. Vertical Caverage of a 1%-Ft x 5-Ft Astenna Designed for SG-3 (Experimental Data Obtained with an SNR Aircraft as Target), Dec. 7, et al. Anti-aircraft Turget Designation Equipment for Ships, Dec. 19, 1944. BL-640 Bunge-Altitude Caverages of Shipborne Microwave Search Radors, July 2, 1945. RL-741 A Discussion of Platting Devices for PPTs, Apr. RL-1038 Blytine, B. H., et al. Colloquium an Polne-Forming Networks, Oct. 12, 1944, Mar. 14, 1945. RI...692 The AN/APS-33, Feb. 28, 1946. RL-763-3 Boss, M. Preflight Check of Radiu Set AN/APQ-7, Sept. 25, 1945. RL-M-219 Preliminary Instructions for Rador System MK RL-M-240 35, Nov. 30, 1945. Preliminary Instructions for Radar Set AN/APG-13R, Sept. 15, 1945. BL-M-246 Preflight Check of Radio Set AN/APQ-7, June 15, RL-S-54 Bogert, B. P., et al. History of AN/APG-5, ARO. Div. 14-323.11-M4 RI-261 Bohnert, J. L., see Krutter, II. et al. SU-2 Anteona, Shiphurae Stabilized Radar RL-659 Antenna for Sea Scorek, Mar. 7, 1945. et al. SU-2 Automa. Line-of-Sight Stabilization of a Badar Beam by Reflector Tilt, Feb. 19, 1945. et al. Stabilized SG-3 Antenna, Feb. 7, 1945. RI\_665 et al. Airborne Early Warning Search Antenna, RL-779 Aug. 30, 1945, Cindy Autenna, A High Resulution K-Bond Budar Antenna for Sea Search, Nov. 1, 1945. RL-849 Bonner, T. W. Some Factors Governing the Runge of Informal RL-91 Al Sets, May 3, 1944. Bostick, V. Rudar Bumbing Techniques, Apr. 30, 1946. RL-S-59 Bostick, W. H. Peak Currents from Carbonized Thori-RL-73 oted Taugaten Cathades, Mar. 20, 1942. Report on Some Tuben Used in Hard Tabe Modu-RL-211 latura, May 19, 1942. RL-217 Palse Transformers, June 1, 1943. Oscilloscope Presentation of Hystoresis Laups at 60 Cycles und under Palse Conditions, June 1, 1943. RL-218

anger

-8-65 Phe-

L-173

POME-

L-478

-689

orne

L-728

-729

Air.

-780

-338

-238

r. 10

-297

irer.

-638

etro-

-683

1005

-440

1068

mera-

946

-905

les,

128

cos

184

eti-

1.85

943

194

088

198

. 4, 199

202

orta, 549

16.

of

Bostick, W. H. (Continued) Tent Equipment for Pulse Transformers, June 1, A 10-20-Centimeter Balometer, Aug. 26, 1942. RL-288 Noise Measurements on Micromaco Converters, Sept. 15, 1942. Performance of the GL446 Lighthouse Tube as an RF Amplifier in the 10-20-cm Regian, Oct. 5, 1942. Use of Transcrature-Limited Diade in Measurements of Noise Figures of Crystals, Feb. 27, 1943. Notes an Measurement of Noise, Gain and Noise Figure of Converters, Jan. 30, 1943. RL-295 Leakage Inductance and Distributed Capacitanes of Various Types of Pulse Transformer Windings, Nov. 22, 1943. RL-463 Pulse Tennsformer Core Material Measurements, Dec. 10, 1943. RL-470 Effect on Current Pulse of Besistance in Series with the Magaetran, Feb 21, 1944. RI.-527 The Eculautian of an Equivalent Circuit for a Pulse Transformer, May 8, 1944. 1:L-545 Analysis of the Influence of Pulse Transformers on Carrent Palne Shape, June 16, 1944. RL-546 Energy Lans in Copper under Palne Conditions, Dec. 22, 1944. BL-619 Palse Transformer Committee Standard Test Methods for Pulne Transformer Coces, May 5, 1945. RL-722 Bothwell, F. E., et al. Data Smoothing, Jan. 23, 1945. RL-682-2 See Dillinger, J. R. et al. A Theoretical Treatment of Radar Torget Return, Aug. 31, 1945. RL-719 Equivalent Network for the 232-RW Pulse Trousformer Based on the Method of Virtual Displace-RL-734 ments, July 2, 1948. et al. Analysis of a Half-Wave Rectifier Circuit Invalving Inductance, Resistance, and Capacitonce, Dec. 26, 1945. RL-867 et ol. A Method for Calculating Magnetron Resonant Frequencies and Modes, Feb. 8, 1946. RL-1039 The Effect of Small Changes in Circuit Parameters on the Solution of Network Problems, Jan. 14, 1946. BL-1063 Boyd, C. D. Analysis of the Tracking of the 584 X-Band System, June 12, 1945. RL-753 RL-884 See Phillips. Brady, J. J. Antenna Catalagne, Oct. 8, 1945. RL-S-64 Braunlich, A. Half Beneon Antenna, Sept. 6, 1943. RT.-419 Brean, J. W., et al. The Manual Plotting System RC-RL-S-62 305, Aug. 31, 1945.

Breen, S. I em Bulometer Detector Snitable for Field

et al. Autenna Feeds for 36" Stub-Supported Co-

Menumrements (Type Y), Dec. 11, 1942.

awial Line, June 21, 1943,

- = 1	
Rright, A. A., et al. A Production Analysis of the Wartime Radio und Rudur Industry, Nov. 1, 1944.	flections. RL-198
RL-S-31 Brillouin, L. Theory of the Split Anode Magnetron	for HaX Supersonic Trainer, Mark III, Sept. 30
Jan. 7, 1942. RL-127 Rrown, A. H. Radur R-F Test Paints, Dec. 15, 1945.	Hondkook of Instructions for the Preparation of
RL-S-68 The So-culled Standard Target, Mar. 10, 1945.	1944. RL-M-181
Brown, P. F., see Hughes, V. W. RL-S-43	
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320

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	123
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	129
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-	THE PART OF LANGE OF THE PARTY	133
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	ting Board on the PPI Pottern, Aug. 8, 1942	RL-387
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	See McLaughlin, D. B.	RL-503
	MEW Clase Control, Apr. 30, 1946.	RL-S-76
	Miller, J. W., see Bender, R. S.	RL-729
	See Bent, A. E.	RL-780
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	Sue Millett, W. E.	RL-1074
r	Montgomery, R. B., see Burgoyne, R. H.	RL-651
	Moore, C. E., see Blue, R. W.	RL-636
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	Moore, L. F., see Collins, G. B.	R187
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	135
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Pearsall, C. S. Carrosion of Copper, Brass, and Alami-	Elimination of Ground Clutter, Mar. 13, 1944.
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RL-248 (53-17)	Poole, A. R., see Keary, T. J. RL-808
See Fox, M. RL-501	44 4 4 5 1 et es es
See McMillan, F. L. RL-895	
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Synchro Units and Their Characteristics, June 27,	See Lawrance, R. B. RL-512
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See Foster, C. E. RL-921	19, 1942, RL-23:
Perkins, G. D., see Lipkin, H. J. RL-672	Phase Distortion in Broad-Band Stub Supports
Perkins, J. R., see LaRue, J. M. RL-210	Aug. 17, 1942, RL-23'
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Noise Filtering Properties of Third Detectors, Oct.	Powell, V., see Fox, M. RL-50
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	Purcell, E. M. Wove Guide Components and Instru
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Pike, B. W. Modification of SCR-584 for Oboc II, Feb. 15, 1944 RL-M-151	A Method for Measuring the Absolute Guin o
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Servo Generator Life Tests, Apr. 8, 1944. RL-S-11	

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| 136 PAI  | RT V   |
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| Forus Coil Cantrol for Cathode Rny Tabes, May  | See Bostick, W. H. RL-218  |
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| Redheffer, R. M. Rudamr Balletia Number 2, An Ont-   | See Bostick, W. H. RL-546  |
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# CONTRACT NUMBERS, CONTRACTORS, AND SUBJECT OF CONTRACT

| Contract Number | Contractor  | Subject  |
|-----------------|---|--|
| NDCrc-25        | University of California,<br>Berkeley, California   | Resnatron tubes  |
| NDCrc-53        | Massachusetts Institute of Technology,<br>Cumbridge, Massachusetts                          | Superseded by OEMsr-262  |
| NDCre-73        | RCA Manufacturing Company,<br>Camden, N. J.   | Microwave components   |
| NDCre-74        | BCA Manufacturing Company,<br>Camden, N. J.   | Pulse transmitter tubes and<br>receivers for Loran   |
| NDCre-150       | Rudio Corporation of America Manufacturing<br>Co.,<br>RCA Victor Division,<br>Camden, N. J. | Long-delay and dark-trace<br>cathode-ray tubes   |
| NDCre-174       | Western Electric Company, Bell Telephone Laboratories, New York, N. Y.                      | 3-cm generator   |
| NDCrc-175       | Western Electric Company,<br>Bell Telephone Laboratories,<br>New York, N. Y.                | Magnetrons and oscillators   |
| NDCrc-192       | Westinghouse Electric & Munufacturing Com-<br>pany,<br>East Pittsburgh, Pa.                 | Laboratory pulsers   |
| NDCre-203       | Massachusetts Institute of Technology,<br>Cambridge, Massachusetts                          | Superseded by OKMsr-262  |
| NDCrc-205       | Western Electric Company,<br>Bell Telephone Laboratories,<br>New York, N. Y.                | Development of receivers fo<br>lung-range navigation sys-<br>tem   |
| OEMsr-2         | Western Electric Company, Bell Telephone Laboratories, New York, N. Y.                      | Pulse timers for Loran   |
| OEMsr-5         | Massachusetts Institute of Technology,<br>Cambridge, Massachusetts                          | Raytheon magnetron mode shop   |
| OEMsr-7         | General Electric Company,<br>Schenectady, N. Y.   | Five experimental permaner<br>magnets  |
| ORMsr-8         | General Electric Campany,<br>Schenectady, N. Y.   | Magnets and receivers, etc.  |
| DEMar-9         | General Electric Company,<br>Schenectady, N. Y.   | One Loran pulse transmitte<br>and four tubes   |
| DEMsr-10        | General Electric Company,<br>Schenectady, N. Y.   | <ul> <li>(a) Long-delay phosphore</li> <li>(b) 10-cm magnetrons, (c</li> <li>two gun hurrents</li> </ul> |
| DEMsr-15        | Sperry Gyroscope Company,<br>Brooklyn, N. Y.  | Antenna parabolae and gear   |
| ORMsr-53        | Sperry Gyroscope Company,<br>Brooklyn, N. Y.  | Pulse receivers for LRN  |
| OEMsr-61        | Massachusetts Institute of Technology   | Superseded by OEMsr-262  |
| DEMer-67        | Sperry Gyroscope Company,<br>Brooklyn, N. Y.  | Klystron oseillatora   |
| OEMar-73        | Westinghouse Klectric & Manufacturing Com-<br>pany,<br>East Pittsburgh, Pa.                 | Pulse transmitters   |

CONFIDENTIAL

| Contract Number | Contractor   | Subject   |
|-----------------|--|---|
| OFMar-74        | Westinghouse Klectric & Manufacturing Com-<br>pany,<br>East Pittsburgh, Pn.                          | Laboratory pulsers  |
| OEMsr-84        | Raytheon Manufacturing Cumpany,<br>Waltham, Massachusetts  | 3-cm magnetrons   |
| OEMar-118       | Sperry Gyroscope, Inc.,<br>Brooklyn, N. Y.   | Additional Klystron work  |
| OEMsr-157       | Western Electric Company (Bell Telephone Laboratorica), New York, N. Y.                              | 3-cm receiving tube   |
| OEMsr-164       | Research Construction Company,<br>Cambridge, Mass.   | Radar model shop  |
| OEMar-168       | Sperry Gyroscope Company,<br>Brooklyn, N. Y.   | Crystal mixer receivera   |
| OEMar-180       | General Electric Company,<br>Schenectady, N. Y.  | Permanent gas thyratrons  |
| OEMsr-191       | Massachusetts Institute of Technology (Labora-<br>tory for Insulation Research),<br>Cambridge, Mass. | Development and wids fre-<br>quency investigation of di-<br>electrics             |
| OEMsr-233       | General Electric Company,<br>Schenectady, N. Y.  | AGL-1 airborne gun-laying<br>radar aystem   |
| OFMar-248       | General Electric Company,<br>Schenectady, N. Y.  | Long-delay and dark-trace cathode ray tubes                                       |
| OEMsr-252       | RCA Victor Divisinn (RCA Laboratories),<br>Camden, N. J.   | Noise reduction system  |
| OEMar-262       | Massachusetts Institute of Technology,<br>Cambridge, Mass.   | Radiation Laboratory  |
| OF Mar-281      | Link Aviation Devices, Inc.,<br>Binghamton, N. Y.  | A1-10 training gear   |
| OEMsr-288       | Westinghouse Electric & Manufacturing Com-<br>pany,<br>Bloomfield, N. J.                             | Cold emission power tubes   |
| OEMar-335       | Polytechnic Institute of Brooklyn,<br>Brooklyn, N. Y.  | Development of attenuators<br>and RF test equipment                               |
| OEMsr-344       | Georgia School of Technology,<br>Atlanta, Ga.  | Ilighly selective audio-amp-<br>lifier and narrow-band lock-<br>in type amplifier |
| OEMsr-358       | Franklin Instituts (Bartol Research Founda-<br>tinn),<br>Philadelphia, Pa.                           | Magnetron eathode studies   |
| OKMsr-360       | Franklin Institute (Bartol Research Founda-<br>tion),<br>Philadelphia, Pa.                           | Electronic switch   |
| OFMar-362       | Purdue Research Foundation,<br>Lafayette, Indiana  | Crystal detectora   |
| OEMsr-369       | Zenith Radio Corporation,<br>Chicago, Illinois   | Lightweight range-only unit   |
| OFMar-380       | Sylvania Electric Products, Inc., (Formerly<br>Hygrade Sylvania, Inc.),<br>Emporium, Pennsylvania    | Aspecial tunable intermediate frequency amplifier                                 |

146

| Contract Number | Contractor   | Subject   |
|-----------------|--|---|
| () EMsr-382     | Brown University,<br>Providence, Rhode Island                            | Cathode-ray tube project  |
| )EMsr-386       | Eastman Koduk Company,<br>Rochester, N. Y.                               | Microwave absorbent paint   |
| )EMsr-387       | University of Pennsylvania, Trustees of the<br>Philadelphia, Pa.         | Radar ranging system an-<br>high-frequency video am<br>plifiers       |
| )EMsr:388       | University of Pennsylvania, Trustees of the<br>Philadelphia, Pa.         | Crystal research  |
| )KMar-429       | Cornell University,<br>Itinaca, N. Y.                                    | Theoretical aid   |
| EMsr-443        | RCA Victor Division (License Division Labora-<br>tory),<br>Camden, N. J. | Loran receiver for receive<br>trainer                                 |
| EMar-477        | RCA Victor Division,<br>Harrison, N. J.                                  | Tube model shop service for<br>Columbia Radiation Lab<br>oratory      |
| )EMsr-485       | Columbia University, Trustees of<br>New York, N. Y.                      | Columbia Radiation Laboratory   |
| EMar-486        | Harvey Radio Laboratories, Inc.,<br>Cambridge, Massachusetts             | Six transmitting sets for long<br>range navigation project            |
| EMsr-507        | Radio Engineering Laboratories, Inc.,<br>Long Island City, N. Y.         | Thirty-six Loran transmiters  |
| EMsr-511        | Harvey-Wells Communications, Inc.,<br>Southbridge, Mass,                 | Fifteen Loran receivers   |
| EMar-540        | General Electric Company,<br>Schenectady, N. Y.                          | Precision aircraft scanners   |
| EMsr-543        | General Electric Company,<br>Schenectady, N. Y.                          | Two truck-mounted XT-1,<br>anti-aircraft fire contro<br>radars        |
| EMsr-546        | University of Colorado,<br>Boulder, Colorado                             | Stable noncrystal controlle<br>low-frequency oscillator               |
| EMar-557        | General Electric Company<br>Schenectady, N. Y.                           | Four (4) AGL-1 equipment  |
| KMar-560        | Kansas State College,<br>Manhuttan, Kansas                               | Time-delay measuring instruments                                      |
| EMsr-582        | General Electric Company,<br>Fort Wayne, Ind. and Pittsfield, Mass.      | Transformer model shop  |
| EMsr-583        | Sylvania Electric Products, Inc.,<br>Emporium, Pennsylvania              | Special signal generators   |
| EMsr-589        | Raytheon Manufacturing Company,<br>Newton, Massachusetts                 | Transformer model shop  |
| EMsr-609        | Leland Electric Company,<br>Dayton, Ohio                                 | Three-phase aircraft alter<br>nator                                   |
| EMsr-619        | American Machine Defense Corporation                                     | Precision antenna mount for<br>use with the CXBL so<br>(SM prototype) |
| EMsr-633        | Fada Radio & Electric Company,<br>Long Island City, N. Y.                | Loran receivers   |
|                 |  | 34  |

CONFIDENTIAL

| Contract Number | Controctor   | Subject   |
|-----------------|--|---|
| OEMsr-634       | Carnegie Institution of Washington, Geophysical<br>Laboratory,<br>Washington, D. C.                            | Cathode-ray tube screena  |
| OEMsr-642       | Sperry Gyroscope Company,<br>Garden City, N. Y.  | AGL-2 fire control system   |
| OEMar-652       | University of California,<br>Berkeley, California  | Ifigh-vacuum switch   |
| DEMsr-663       | Gilfilen Bros., Inc.,<br>Los Angeles, Cal.   | Ground-control-of-approach<br>landing systems AN/<br>Ml'N-1 (XE-1) and con-<br>struction of two |
| OEMsr-684       | RCA Victor Division (RCA Laboratories), -Princeton, N. J.  | Lightweight Racon develop-<br>ment (BUPX)   |
| OEMsr-689       | Foxboro Company,<br>Foxboro, Massachusetts   | Trainer for SCR-584, anti-<br>aircraft fire control radar                                       |
| OEMar-691       | RCA Victor Division (RCA Laboratories),<br>Camden, New Jersey  | UHF propagation studies   |
| DE Mar-709      | Westinghouse Electric & Manufacturing Com-<br>pany,<br>Bloomfield, N. J.                                       | High-pressure spark gap   |
| OEMsr-723       | General Electric Company,<br>Schenectady, N. Y.  | Loran receivers   |
| OEMsr-728       | State College of Washington,<br>Pullman, Washington  | Microwave propagation studies   |
| DEMar-768       | Cornell University,<br>Ithaca, N. Y.   | Theoretical ald   |
| OEMsr-770       | Harvey-Wells Communications Inc.,<br>Southbridge, Mass.  | Fifty Loran receivers   |
| OEMsr-777       | Western Electric Company (BTL)<br>New York, N. Y.  | Interference and field strength study   |
| OEMsr-781       | Rensselaer Polytechnic Institute,<br>Troy, N. Y.   | Trigger circuits  |
| OEM sr-789      | Radio Manufacturing Engineering Laboratories,<br>Inc.,<br>Long Island City, N. Y.                              | Five Loran training equip-<br>ment  |
| OEMsr-805       | Harvey Radio Laluratories, Inc.,<br>Cambridge, Mass.   | Twenty Loran transmittera   |
| OEMsr-812       | Fairchild Camera & Instrument Corporation<br>(formerly Fairchild Aviation Corpora-<br>tion),<br>Jamalca, N. Y. | (a) AGL central-station com-<br>puter and (b) AGS gyro<br>aight and spinner mount               |
| OEMer-821       | Franklin Institute (Bartol Research Founda-<br>tion),<br>Philadelphia, Pa,                                     | Crystal clock for Loran re-<br>ceiver   |
| OEMer-832       | Phileo Corporation,<br>Philadelphia, Pa.   | LHTR unit for ARO radar<br>and construction of slx  |
| OEMsr-872       | RCA Victor Division,<br>Harrison, N. J.  | RF tube development   |

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| Contract Number | Contractor   | Subject   |
|-----------------|--|---|
| EMsr-874        | Fairchild Aviation Corporation,<br>Januaica, N. Y.                       | Range follow-up for ARO   |
| EMsr-890        | Emerson Radio & Phonograph Corporation,<br>New York, N. Y.               | Trainer for SII radar   |
| EMsr-900        | Carnegie Institute of Technology,<br>Pittsburgh, Pa.                     | Dark-trace cathode-ray tuber  |
| EMar-918        | Galvin Manufacturing Corporation,<br>Chicago, Illinois                   | BPP, nortable radar beacor<br>(AN/PPN-2)                                    |
| EMsr-960        | Duimp-Victor, Inc.,<br>San Francisco, Colifornia                         | Development of radar scan   |
| E Mar-972       | Gnivln Manufacturing Corporation,<br>Chicago, Illinois                   | Airborne range only ARO   |
| EMar-977        | RCA Victor Division (License Division Labora-<br>tory),<br>Camden, N. J. | Loran receiver development  |
| EMar-988        | Sylvanin Electric Products, Inc.,<br>Emporium, Pennsylvania              | Radar tube for pulsed an<br>CW operation                                    |
| EMsr-999        | Sylvania Electric Products, 1nc.,<br>Salem, Massachusetts                | Tube model shop   |
| E Mar-1022      | Stevens Institute of Technology,<br>Hoboken, N. J.                       | Development of electri<br>brushes through power<br>metallurgy               |
| EMsr-1025       | RCA Victor Division,<br>Camden, N. J.                                    | Lightweight tail warnin<br>system (AN/APS-13)                               |
| EMsr-1029       | RCA Victor Division (License Division Labora-<br>tory),<br>Camden, N. J. | Lodar direction-finding re-<br>ceivers                                      |
| EMsr-1632       | Kuthe Electric Company,<br>Newark, N. J.                                 | Development of the H-50 hy<br>drogen thyratron                              |
| EMsr-1043       | RCA Victor Division,<br>Lancaster, Pennsylvania                          | Radar tule model shop   |
| DEMsr-1044      | Librascope, Incorporated,<br>Burbank, California                         | Radar bombing computer<br>and ballistic computer fo<br>gun director Mark 56 |
| EMsr-1052       | Galvin Manufacturing Corporation,<br>Chicago, Illinois                   | BGS beacons, construction of  |
| EMsr-1054       | Douglas Aircraft Company,<br>Santa Monica, California                    | Antenna installation for pro<br>ect "Eagle" (AN/APQ-7)                      |
| EMar-1089       | International Projector Corporation,<br>New York, N. Y.                  | Model of scanning antenn<br>for Esgle (AN/APQ-7)                            |
| EMsr-1991       | Wilcox & Gibbs Sewing Machine Company,<br>New York, N. Y.                | Equation solver for SM an<br>SCR-615 tealners                               |
| DEMsr-1112      | Westinghouse Electric & Manufacturing Com-<br>pany,<br>Sharon, Pa.       | Transformers model shop I   |
|                 | RCA Victor Division (National Broadcasting                               | Relay radar system  |

CONFIDENTIAL

| Contract Number | Contractor   | Subject   |
|-----------------|--|---|
| OEMsr-1139      | E. I. du Pont de Nemours, Inc.,<br>Wilmington, Delaware  | Research on sintering of bo<br>ron and laboratory prep<br>aration of pure germanium |
| OEMsr-I 140     | Ailen B. DuMont Laboratories, Inc.,<br>Passaic, New Jersey   | P <sup>8</sup> I indicator units  |
| OEMsr-1141      | Allen B. DuMont Laboratories, Inc.,<br>Passaie, New Jersey   | Development of cathode-ray<br>tube screens  |
| OEMsr-1143      | Emerson Radio & Phonograph Corporation,<br>New York, N. Y.   | Power aupply for lodar re<br>ceivers  |
| OEMar-1146      | Machlett Laboratories, Inc.,<br>Springfield, Connecticut   | High-power S-band magne-<br>tron  |
| OEMEr-1149      | General Electric Company,<br>Schenectaly, New York   | Gyro lead computer sight for<br>the AGS radar                                       |
| DEMsr-1162      | Massachusetta Institute of Technology (Servo-<br>mechanisms Laboratory),<br>Cambridge, Massachusetts | Servos for gun director Mark<br>58  |
| EM sr-1165      | Westinghouse Electric & Manufacturing Com-<br>pany,<br>Bloomfield, New Jersey                        | K-band transmitter tube developments  |
| DEMsr-I 167     | Chrysler Corporation,<br>Detroit, Michigan   | Radar scanning units for<br>SCR-584 and gun director<br>Mark 56                     |
| DEMsr-1186      | Sylvania Electric Products, Inc.,<br>Salem, Massachusetts  | K-band RF head  |
| DEMsr-1199      | E. I. du Pont de Nemours, Inc.,<br>Wilmington, Deluware  | HARP protective coatings  |
| EMsr-1212       | Western Electric Company,<br>New York  | Thermistors for RF power measurement  |
| EMsr-1218       | Western Electric Company (BTL),<br>New York, N. Y.   | Bread-band TR and anti TR   |
| EM sr-1229      | Franklin Institute (Bartol Research Founda-<br>tion),<br>Philadelphia, Pennsylvania                  | Loran supersonic trainer  |
| DEMsr-1239      | Westinghouse Electric & Manufacturing Com-<br>pany,<br>Sharon, I'a.                                  | Transformer model ahop II   |
| EMsr-1242       | Chicago Telephone & Supply Company,<br>Eikhart, Indiana  | Special winding machine   |
| EMsr-1269       | Utah Radio Products Company,<br>Chicago, Illinois  | Design and sample produc-<br>tion of pulse transformers                             |
| EMsr-1283       | Federal Telephone & Radio Corporation,<br>Newark, New Jersey   | High impedance cable  |
| EMsr-1291       | Maguira Industries, Inc., (General Electronics<br>Industries Division),<br>Greenwich, Connecticut    | Stabilized scanner for the<br>H2K radar and the con-<br>struction of five           |
| EMsr-1295       | Sylvania Electric Products, Inc.,<br>Emporium, Pa.   | Cathode-ray tube screens  |
| EMar-1299       | General Electric Company,<br>Schenectady, New York   | Gun director Mark 56  |
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| Contract Number        | Contractor   | Subject  |
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| OEMsr-1306             | General Electric Company,<br>Schenectudy, New York                 | Broad-band TR and anti TR  |
| OEMer-1311             | California Institute of Technology,<br>Pasadena, California        | Precision measurement of waveguide discontinuities                   |
| OK Msr-1336            | General Electric Company,<br>Schenectady, New York                 | Stable base unit for radar antenna                                   |
| OEMsr-1337             | Sperry Products, Inc.,<br>Hoboken, New Jersey                      | MTH computing radar sight  |
| OEMar-1338             | International Business Machines Corporation,<br>Endicott, New York | Counter for Mark III Loran<br>indicator                              |
| OEMsr-1352             | Sylvania Electric Products, Inc.,<br>Salem, Massachusetts          | Transformer model shop   |
| OEMsr-1358             | Fairchild Camera & Instrument Corporation,<br>Jamaica, New York    | Cameras for aerial radar pho-<br>tography                            |
| OEMsr-1369             | University of Michigan,<br>Ann Arbor, Michigan                     | Infrared absorption by water vapor                                   |
| OKMsr-1361             | American Type Founders,<br>Elizabeth, New Jersey                   | Antenna mounts for high-<br>resolution radar                         |
| OKMsr-1377             | General Electric Company,<br>Schenectady, New York                 | K-band crystals  |
| OEMsr-1394             | General Electric Company,<br>Schenectady, New York                 | Components for two SCI radars (CXHR)                                 |
| OEM#r-1408             | Western Electric Company (BTL),<br>New York, N. Y.                 | Germanium erystal rectifiers<br>for radar                            |
| OKMsr-1409             | Western Electric Compony (BTL),<br>New York, N. Y.                 | High-power enclosed fixed-<br>gaps                                   |
| Purchase Order 600,072 | Western Electric Company,<br>New York, N. Y.                       | Procurement of Type D-<br>160207 oscillator                          |
| Purchase Order 600,073 | Western Electric Company,<br>New York, N. Y.                       | Procurement of Type D-<br>160537 magnetrons                          |
| Order TPS-38541        | General Electric Company,<br>Schencetady, New York                 | Procurement of one square<br>wave generator and two<br>oscilloscopes |

Note: Subject of contract includes D-1, NDRC.

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### TITLES OF DIVISION 14 SUMMARY TECHNICAL REPORTS

### SUMMARY TECHNICAL REPORT OF DIVISION 14, NDRC

VOLUME 1 RADAR: SUMMARY REPORTS AND HARP PROJECT.

VOLUME 2 MILITARY AIRBORNE RADAR SYSTEMS (MARS).

VOLUME 3 BIBLIOGRAPHY OF DIVISION 14 AND RADIATION LABORATORY REPORTS.

### RADIATION LABORATORY SERIES

(Published by the McGraw-Hill Book Company)

- 1. RADAR SYSTEM ENGINEERING, Louis N. Ridenour.
- 2. RADAR AIDS TO NAVIGATION, J. S. Hall.
- 3, RADAR BEACONS, A. Roberts.
- 4. LORAN, J. A. Pierce, A. A. McKenzie, R. H. Woodward.
- 5, Pulse Generators, G. N. Glasoe, J. V. Lebacqz,
- 6. MICROWAVE MAGNETRONS, George B. Collins.
- 7. Klystrons and Microwave Triodes, D. R. Hamilton, J. K. Knipp, J. B. H. Kuper.
- 8. Principles of Microwave Circuits, C. G. Montgomery, E. M. Purcell, R. H. Dicke.
- 9. MICROWAVE TRANSMISSION CIRCUITS, G. L. Rugad.
- 10. WAVEGUIDE HANDBOOK, N. Marcuvitz.
- 11. TECHNIQUE OF MICROWAVE MEASUREMENTS, C. G. Montgomery.
- 12. MICROWAVE ANTENNA THEORY AND DESIGN, S. Silver.
- 13. PROPAGATION OF SHORT RADIN WAVES, D. E. Kerr.
- 14. MICROWAVE DUPLEXERS, L. D. Smullin, C. G. Montgomery.
- 15. CRYSTAL RECTIFIERS, H. C. Torrey, C. A. Whitmer.
- 16. MICROWAVE MIXERS, R. V. Pound.
- 17. COMPONENTS HANDBOOK, John F. Blackburn.
- 18. VACUUM TUBE AMPLIFIERS, George E. Valley, Jr., Henry Wallman.
- 19. WAVEFORMS, Britton Chance, F. C. Williams, V. W. Hughes, D. Sayre, E. F. MacNichol, Jr.
- 20. ELECTRONIC TIME MEASUREMENTS, Britton Chance, R. I. Hulsizer, E. F. MacNichol, Jr.
- 21. ELECTRONIC INSTRUMENTS, I. A. Greenwood, Jr., D. MacRac, Jr., H. J. Reed, J. V. Holdam, Jr.
- 22. CATHODE RAY TUBE DISPLAYS, J. T. Soller, M. A. Sthit, George E. Valley, Jr.
- 23. MICROWAVE RECEIVERS, S. N. Van Voorhis.
- 24. Threshold Signals, J. L. Lawson, G. E. Uhlenbeck.
- 25. THEORY OF SERVOMECHANISMS, H. M. James, N. B. Nichols, R. S. Phillips.
- 26. RADAR SCANNERS AND RADOMES, W. M. Cady, M. B. Kurelitz, L. A. Turner.
- 27. COMPUTING MECHANISMS AND LINKAGES, A. Svoboda.
- 28. INDEX.

### THE RADIATION LABORATORY SERIES

From its formation in November 1940 to its dissolution at the end of 1945, the Radintion Laboratory, maintained at the Massachusetts Institute of Technology under contract with the National Defense Research Committee of the Office of Scientific Research and Development. was the foremost U.S. research and development institution in the field of microwave radar, OSRD was instructed by President Roosevelt to record and preserve for the public at large the durable values of the wartime work it sponsored. The series was undertuken by Dr. L. A. DuBridge, director of the Radiation Laboratory. Work on the series has been under wny since May 1945, under the general supervision of Louis N. Ridenour, editor-in-chief, und George B. Collins, deputy editor-in-chief,

The series as planned consists of 27 titles and a general index. It has been written and edited principally, but not entirely, by members of the Radiation Laboratory. Since the laboratory has been a principal focus for the interchange of information among all agencies working in radar during the war, it has been able to collect all of the important information in the field.

While the investigations which led to the results reported had the single aim of giving our Army und Navy the best possible military radar equipment, the implications and the usefulness of the basic knowledge thus guined extend far beyond the limited practical field of radar. The part of the electromagnetic spectrum, in which the generation, modulation, reception, and measurement of continuous waves has now become an everyday matter, has been extended to include the frequency range between 30,000 and 300 megacyles per second-a region lnaccessable before the war, practically speaking. The work on accurate range measurement by means of radar has given us techniques which enable the measurement of a time interval of a hundred-milllonth of u second with the same case and aeeuracy which used to characterize the measurement of a thousandth of a second. Advances in our understanding of the design and behavlor of vacuum tube circuits, together with great improvements in tubes and other components of such elecuits, enable the postwar designer to perform by electronic means an astonishing variety of process and measurement and calculating functions which were formerly the province of mechanical devices. The cathode-ray tube, stiil an justrument of somewhat limited and special utility when we entered the war, has emerged as the basis of a whole new art of measurement and display of comidicated data of various sorts. Not only television pictures and rudar indications, but also the results of any sort of measurement the Instrumentation of which can be reduced to electrical terms, can be displayed on cathode-ray tubes. The lumped-constant electrical circuits of prewar experience have now their analogues la microwave waveguide circuits; and the theory and engineering principles necessary to deal with these circuits have largely been worked out since the war.

It is the aim of the series to trent the advances arising from radar work in a fushion which will emphusize the role of these advances as the basis for the new electronics, rather than to treat each part of the work in terms of its contributions to radar. The editors hope that the usefulness of the series can thus extend over all the fields—of communication, of television, of industrial instrumentation und control, of research in the biological and physical sciences, and of radar itself—in which electronic techniques are of greut and increasing applicability and importance.

### RADAR SYSTEM ENGINEERING Louis N. Ridenour

It is the aim of this book to outline the general principles of design of radar systems. On the one hand, it collates, from the standpoint of the radar designer, the detailed information which has been given extensively in the other books of the series; on the other hand, it considers fully the basic considerations which underlie and are particular to systems design. It is intended as a basic treatise and reference book for anyone interested in making any application of radar.

## RADAR AIDS TO NAVIGATION J. S. Hall

The principal aim of this book is to point out in nontechnical form the advantages and limitations of various types of radar as alds to the solution of various problems encountered in navigation and pilotage. These types include airborne, shipborne and ground-based systems, Radar beacons and other auxiliary equipment are also discussed.

# RADAR HEAGONS A. Roberts

This volume deals with the design and use of radar responder beacons. The employment of systems involving beacons for navigation and for identification is critically discussed. Systems using rudar sets as interrogators and systems using special interrogators are both treated. Full information is given on the practical experience so far available regarding the field installation, operation, and maintenance of beacons.

### LORAN

### J. A. Pierce, A. A. McKenzie, R. H. Woodcard

This book gives a complete account of the design and use of the long-range pulse navigation system known as Loran, both in its original form and as skywave-synchronized Loran. The greater part of the discussion will be devoted to equipment now in operational use. Sections are included on radio propagation at Loran frequencies and on methods for the computation and preparation of Loran navigational charts.

### PULSE GENERATORS G. N. Glasoe, J. Y. Lebucqz

This book deals with the theoretical and practical aspects of the generation of power pulses. Pulse powers in the range of 100 watts to 20 megawatts and pulse durations from 0.03 to 10 microseconds are considered. The treatment is as general as possible, with emphasis on such problems as: pulse formation; the effect of circuit purameters on the pulse shape; pulse power, average power, power transfer, and circuit efficiency; impedance transformation by pulse transformers; and characteristics and design of pulse transformers.

### MICROWAVE MAGNETRONS George B. Collins

This covers quite completely the theoretical and practical aspects of multicavity magnetrons in the frequency range from 1,000 to 24,000

megacycles per second and in the power output range from 10 watts to 3,000,000 watts. The circuit theory and electronics of this type of oscillator are discussed with special attention to the subjects of starting phenomena, electronic tuning, and stabilization of frequency. Practical problems of magnetron design and special applications of the magnetron principle to both pulsed and c-w tubes are dealt with in full. The book concludes with a compilation of the operating characteristics of microwave magnetrons developed during the war.

# KLYSTHONS AND MICROWAVE THIODES D. R. Hamilton, J. K. Knipp, J. B. H. Knper

This book is primarily concerned with low-power microwave Iriodes and klystrons, and their performance as local oscillators, signal generators, and low-power transmitters. A theoretical treatment is given covering the use of triodes and klystrons as mixers, amplifiers, oscillators, and frequency multipliers. The performance of planar triodes with small electrode spacing as low power sources of CW and pulse power is dealt with next. The balance of the book deals with the theory and use of two-cavity and reflex klystrons.

# PHINCIPLES OF MICROWAVE CIRCUITS C. G. Monigomery, E. M. Purcell, R. II, Dicke

Starting from Maxwell's equations, a description is given of guided electromagnetic waves. The concept of impedance is generalized to apply to wavegulde circuits. Following a review of low-frequency network theory, general network theorems which apply both to high- and to low-frequency circuits are developed. The properties of wavegulde circuit elements are fully discussed. These general properties are applied to the discussion of microwave devices. The results which follow from the symmetry properties of microwave junctions are emphasized.

# MICROWAVE TRANSMISSION CIRCUITS G, L, Ragan

The problems of the transmission of power from one place to another at microwave frequencies are fully discussed in this volume from a practical point of view. The elementary theory of operation and the complete design procedure are described for many essential components of transmission lines. Consideration of power-

handling capacity, loss, and convenience of use ure discussed in relation to the best choice of the type of transmission line for a given application. The use of the circle diagram, matching techniques, and methods for extending the frequency range for good operation are treated.

# WAVEGUIDE HANDBOOK N. Marcovita

The Waveguide Handbook wlll present in compact form all currently available theoretical data, and some experimental data, on the properties of microwave transmission lines, microwave circuit elements (obstacles, windows, discontinuities, bends, janctions and couplings) and of some other structures, such as cavities, which may be considered us composites of these, Data will be given in the form most easily applied in practical circuit design. Theoretical results will be stated in analytical form, but the greater part of the book will consist of graphs presenting results in namerical form. When theoretical results are not available, experimental results may be given. Textual material will be restricted to that needed to explain the form of presentation and, in some cases, to indlcate methods of application.

### TECHNIQUE OF MICHOWAVE MEASUREMENTS

C. G. Montgomery

This book describes in detall the procedures for measuring the properties of microwaves and the circuits in which they are used. After an introduction which discusses the measurable quantities, there is a description of the sources of power suitable for measuring purposes and the means for detecting energy at microwave frequencies. Standing-wave measurements and the determination of impedance are considered. The measurement of wavelength and frequency is similarly treated. Techniques are described for the measurement of power and attenuation covering the whole range of power levels which are encountered. Various microwave devices sach as directional couplers, spectrum nunlyzers, und impedance bridges are treated in detail.

### MICHÓWAVE ANTENNA THEORY AND DESIGN

S. Silver

This book provides a comprehensive sarvey of theory and design techniques for microwave antennas, and a full discussion of antenna mensurement methods. A survey of those parts of electromagnetic and optical theory which are basic to the subject is followed by a series of chapters discussing various types of antenna feeds and the complete antenna systems used for producing all principal types of microwave beams. The aberrations and special features of microwave optical systems are discussed in relation to rapid scan antennas.

# PROPAGATION OF SHORT RADIO WAVES D. E. Kerr

Because of the intensive development during the war of radar and communication equipment operating at frequencies above 100 megacycles per second considerable effort has been directed toward investigating the propagation characteristics of radiation at frequencies too high to be effected by the ionosphere. It is the purpose of this book to collect and summarize the results of these investigations, in such a way that they will be readily available to present and future workers in the field.

# MICROWAVE DUPLEXERS L, D, Smullin, C, G. Montgomery

This book deals with the general problem of using a single antenna for both receiving and transmitting and is, therefore, mainly of interest for pulsed transmission applications, A discussion is given of the low-level properties of TR und ATR tubes and the methods for their design. The high-level operation is described in detail and discussed in connection with the properties of the gases used for filling the tubes. A chapter is devoted to the discussion of the circuits used for duplexing, including both the simpler branched circuits and the more complex balanced types. There is a chapter on how to measure the performance of the tubes as well as the duplexer as a whole.

### CRYSTAL RECTIFIERS H. C. Torrey, C. A. Whitmer

This book discusses the theory, properties, manufacture, and use of the silicon and germapium point-contact rectifiers which have been developed for use as microwave converters and for other circuit applications. Treatment of the theory of semiconductors, of the aemiconductormetal contact, of frequency conversion by recti-

fiers and of noise generation by crystals is followed by engineering information on the production and use of practical crystal types, Crystal rectifiers with special properties are also considered. Low level detectors, high inverse voltage crystals, and crystals with negative i-f conductance are discussed in detail.

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# MICROWAVE MIXERS R. V. Pound

This book deals with the microwave portions of receivers for very high frequency waves. After a general discussion of the various types of receiving systems and their relative merit, the conversion frequency problem is treated in all its aspects. Practical mixers are described and their design problems are discussed. A chapter is devoted to the special properties of balanced mixers. Schemes are described for maintaining a constant absolute frequency of the local oscillator as well as those for stabilizing to a constant frequency difference between the transmitter and local oscillator.

# COMPONENTS HANDBOOK Lohn F. Blackburn

This book codifies available information on the properties and characteristics of electronic components, It includes the results of original measurements made at the Rudiation Laboratory on manufactured components. Fixed componentswires, cables, resistors, capacitors, inductors, and trunsformers-are treated in the first part, which also includes information on various types of contact rectifiers. The second part deals with electromechanical devices: potentiometers, variable condensers, rotary inductors, instrument meters, tachometer generators, relays, magnetic clutches, and plezoelectric crystals. Part 3 is devoted to vacuum tubes, and includes a brief summary of the properties of cathoderay tubes

### VAGUUM TUBE AMPLIFIERS George E. Valley, Jr., Henry Wallman

This book seeks to analyze completely, to give design principles of, and to describe the special constructional techniques pertaining to many important types of amplifiers. The amplifiers selected for treatment are, in general, characterized either by very high gain, by large band-

width, by great dynamic range, or by precise response. Following a theoretical introduction, video amplifiers, wide-band high-frequency band-pass amplifiers, low-frequency band-pass amplifiers, and direct-coupled amplifiers are discussed. Noise in amplifiers is treated rigorously, and the practical design of minimal noise amplifiers described.

### WAVEFORMS

Britton Chance, F. G. Williams, V. W. Hughes, D. Sayre, E. F. MacNichol, Jr.

This volume describes the generation and use of precisely controlled voltages and currents having various time dependence and duration, Introductory chapters present new methods of wave shaping by linear circuit elements and negative feedback amplifiers. The properties of vacuum tubes as nonlinear circuit elements and their applications to waveform manipulations are presented in detail. The operation of various types of multivibrators, blocking oscillators, and other basic circuits, is discussed with special emphasis upon wave shape and stability. Waveforms of precisely adjustable duration are emphasized. Other chapters treat the use of linear and nonlinear circuit elements in modulation, demodulation, frequency multiplication and division, and in rapidly executed mathematical operations.

# ELECTRONIC TIME MEASUREMENTS Britton Chance, R. I. Hulsizer, E. F. MacNichol, Jr.

This book opens with a survey of the use of precision timing methods in distance finding with detailed designs of precision ranging circuits depending upon both manual and automatic control. The second part treats electrical circuits using supersonic delay elements for the cancellation of recurrent waveforms as used in moving target indication systems. The third part presents several precision methods for data transmission employing pulse timing techniques.

# ELECTRONIC INSTRUMENTS 1. A. Greenwood, Jr., D. MacRae, Jr., H. J. Roed, J. V. Holdam, Jr.

Details of the design of simple electronic computing systems are followed by several lllustrative applications to the solution of the aircraft navigation problem and the synthesis of

radar data for training purposes. A second part is devoted to the practical aspects of the design of lightweight, iow-power electronic servo-mechanisms, and a number of practical examples taken from various radar and fire-control applications are included. The last two parts treat the practical design of accurately stabilized power supplies and the problems of design and construction of prototype equipment with special emphasis upon lightweight techniques and the limitations of available components,

### CATHODE-RAY TUBE DISPLAYS

J. T. Soller, M. A. Starr, George E. Valley, Jr.

Those interested in the design of instruments employing eathode-ray tubes will find in this book a practical discussion of their basic characteristics, principles of operation, and methods of application. The design and construction of beam deflection and focusing devices, optical projection and measuring apparatus, and suxillary mechanical equipment is explained. A comprehensive treatment of enthode-ray tube screens includes a discussion of long-persistent phosphors. A compilation of design techniques, whereby instruments using cathode-ray tubes as major components can be synthesized to fuifili various functions, comprises a major portion of the book, Television is not emphasized.

# MICROWAVE RECEIVERS S. N. Pan Voorhis

This book treats together all the elements making up a wide-band receiver, Its first section deals with the individual circuit types from which a complete receiver is assembled. The second section deals with general matters concerning the assembly, testing, and maintenance of microwave receivers. The third section describes netual receivers chosen as examples because they are typical of the important combinations of circuits,

# THRESHOLD SIGNALS J. L. Lausson, G. E. Uhlenbeck

This book is intended to provide an analysis, both theoretical and experimental, of the factors which affect the perception of desired signals in the presence of various kinds of interference, principally inherent receiver noise. While emphnsis is placed on signals and interference which are usually encountered in puised systems, other systems such as continuous-wave ones modulated either in frequency or amplitude are briefly discussed. In addition to signals which consist of trains of pulses, a treatment is given of pulse trains which are amplitude-modulated in some desired way.

# THEORY OF SERVOMECHANISMS II. M. James, N. B. Nickols, R. S. Phillips

This book falls into two main parts; a presentation and extension of the standard theory of servomechanism design, and an account of a new technique. Part I deals with the frequencyresponse techniques of servomechanism design, which makes use of transfer loci, attenuation versus log-frequency plots, and phase-angle versus log-frequency piots. The required mathematical background is summarized and applications are described. Part II presents a new design technique, which depends upon minimization of the rms error with which the mechanism produces a desired result, in the presence of electrical noise and other disturbances. The approach makes fundamental use of statistical methods, which are here presented, together with necessary background material. The relation of this technique to that discussed in Part I is explored. The discussion is illustrated with many examples. The book closes with an account of the application of these techniques to servomechanisms operating with pulsed data.

# RADAR SCANNERS AND RADOMES W. M. Cady, M. B. Karolitz, L. A. Turner

The first part of this book takes up the problems of mechanical and electrical engineering and of servo design which underlies the design of seanners for practical radar sets. Land-based, shipborne, and airborne scanners are treated. Gyroscopically controlled antenna stabilization is discussed, The second part is devoted principally to the practical mechanical, electrical, and aerodynamic problems of the design of radomes (housings for scanners). It also includes discussion of the properties of the most useful materials, and some development of the theory of the effects of such housings on the radiated waves.

# COMPUTING MECHANISMS AND LINKAGES A. Svoboda

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ng gn ed, on cind es isul This book provides a general discussion of computing mechanisms in general, and a detailed study of the design of bar linkages for use in computers. It includes a full account of novel methods for the design of bar linkages serving as generators of functions of one and two independent variables. Special attention is paid to the design of bar-linkage multipliers,

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 DuBridge, L. A.
                   DIVISION. Electronice (3)
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 Guerlac, E. E.
                    SECTION: Electronic Theory (12)
 Johnson, M. H.,
                    CROSS REFERENCES: Electronics - Bibliographies (31553);
 and others
                     Radar (77000); Eavigation, Loren (66201)
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    AUTHOR(S)
AMER. Will Bibliography of Division 14 and radiation laboratory reports
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OMGINATING AGENCY: 0.S.R.D., R.D.R.C., Div. 14, Washington, D. C.
TRANSLATION:
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          Eng.
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                                            DOSTRACT
     Approximately 2000 technical reports on the microways, rader and Loran navigation re-
 cearch and development program of Division 14 of the National Defense Research Committee
 are indexed in this bibliography. Section 1 contains a numerical list of reports which
 have been assigned Division 14 report numbers. Section 2 is a numerical index of regular
 reporte, manuale, special reporte and texts issued by MIT-KL under OHED contract CHMsr-
 262. Section 3 is a combined index by subject matter of both Division 14 and MIT-RL reports. Section 4 lists Division 14 reports by the organization responsible for their
 preparation. Section 5 is an index of MIT-RL reports by author.
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                                                                    WRIGHT FIELD, OHIO, USAAF
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